AUTHOR INDEX

A

Anon., 10, 25, 44, 51, 56, 60, 78, *bis*, 82, 84, 113, 122, 135, 142, 144, 171, 172, 175, 186, 206, 210, 214, 219, 220, 231, 236, 242, 243, 245, 251, 261, 264, 279, 280, 282, 286, 287, 304, 319, 325, 328, 331, 349, 362, 367, 373, 388, 391, 394, 415, 421, 436, 441, 458, 462.
Abbott, W. E., Hirshfeld, J. W., & Meyer, F. L., 165.
Abelson, L. C., 370.
Abercrombie, M., & Johnson, M. L., 330.
Abraham, E. P., 253.
—, & Duthie, E. S., 320.
Abrahams, I., & Miller, J. K., 371.
Abrahamse, A. A., 245.
Abramson, H. A., Boyd, W. C., Hooker, S. B., Porter, P. M., & Purnell, M. A., 434.
Abreu, B. E. See Woodbury, R. A., jt. author, 406.
Adamesteanu, I., 54.
Adams, C. B. See Kearney, W., jt. author, 194.
Adams, J. M., 329.
Adams, W. E. See Carlton, L. M., Jr., et al., jt. authors, 233.
Adamson, J. D., Warner, W. P., Keevil, R. F., & Beamish, R. E., 181.
Addis, C. J., & Chandler, A. C., 48.
Adler, S., & Tchernomoretz, J., 43.
Agrell, I. M. See Rubarth, S., jt. author, 284.
Agyen-Frempong, S., 417.
Ahmad, C. M., 231.
Ahmad, S. D., 31.
Akerblom, E., & Sjöberg, K., 270.
de Alba, J. See Asdell, S. A., et al., jt. authors, 115.
Albert, A., Rubbo, S. D., Goldacre, R. J., Davey, M. E., & Stone, J. D., 120.
Alberti, A., 354.
Aleksandrov, N. A., 88.
Alexander, D. F. See Raper, K. B., et al., jt. authors, 118.
Alexander, F., 413.
Alexander, R. See Rake, G., et al., jt. authors, 394.
Alicata, J. E., & Willett, E. L., 410.
—. See also Cuckler, A. C., jt. author, 267.
Alice, 60.
Alice, F. J., 431.
Alikaev, 78.
Allan, J., 455.
Allcroft, R., 271, *bis*.
Allen, A. J., 379.
Allen, A. S., 448.
Allen, F. E. See Slanetz, L. W., jt. author, 120.
Allen, H. E. See Finland, M., et al., jt. authors, 100, 101.
Allen, R. W., 283.
—. See also Wehr, E. E., jt. author, 15.
Allen, W. C. See Chance, H. L., jt. author, 424.
Alling, E. L. See Zeldis, L. J., jt. author, 113.
—. See also Zeldis, L. J., et al., jt. authors, 364.
Allison, N. H. See Havens, W. P., Jr., et al., jt. authors, 302.
Allison, V. D., 416.
—, & Smyth, J. A., 87.
—. See also Hobbs, B. C., et al., jt. authors, 31.
Almasy, F. See Krupski, A., et al., jt. authors, 77, *bis*, 270.
Alström, I., 280.
Altman, I. See Brunner, M., et al., jt. authors, 354.
Alture-Werber, E., Lipschitz, R., Kashdan, F., & Rosenblatt, P., 340.
Amfiteatrov, F. Z., 45.
Amos, B. See Carter, C. W., et al., jt. authors, 405.
Ancel, P., & Lallemand, S., 446.
Anchezar, B. See Elizalde, P. I., et al., jt. authors, 291.
Andberg, W. G., & Weirether, F. J., 2.
Anderson, C. R., 103.
Anderson, C. W. See Gunderson, N. O., jt. author, 254, 421.
Anderson, E. O., 1.
—. See also Seeley, H. W., Jr., et al., jt. authors, 280, 289, 386.
Anderson, J., 80, 407.
Anderson, R., Livingston, W. K., & Dow, R. S., 156.
Anderson, S. G., 393.
Andervont, H. B., 106, *ter*.
—, & Bryan, W. R., 105.
—. See also Deringer, M. K., et al., jt. authors, 106.
Andolfato, A. See Cilli, V., jt. author, 389.
Andreasen, E., 365.
Andrewes, C. H., & Glover, R. E., 430.
Andrews, F. N. See Shrewsbury, C. L., et al., jt. authors, 278.
Andrews, J. S., & Connelly, J. W., 73, 103.
Angulo, L. N., 219.
Anigstein, L., & Bader, M. N., 282.
—. See also Pomerat, C. M., jt. author, 191.
Anker, H. See Johnson, B. A., et al., jt. authors, 242.
Annand, P. N., 306.
Ansari, M. A. R., 28.
Antipin, D. N., 17.
Apollosova, P. A., 5.
Applemans, M., & Gathy, J., 312.
Aragão, H. B., 230.
Aramendi, M. C. See Schang, P. J., jt. author, 200.
Araujo, J. O. See Pereira, R. S., jt. author, 198.
Archer, A. F., 227.
Archetti, I., 6, *bis*.
Arena, A. R. See Vaccarezza, R. F., jt. author, 255.
Armand-Delille, P. F., & Gysin, O., 95.
Armbrust, C. A. See Kohls, G. M., et al., jt. authors, 70.
Armstrong, C. D., Halpern, R. M., & Cutting, W. C., 319.
Armstrong, P. B., 236.
Arthur, G. H. See Wright, J. G., jt. author, 137.
Artioli, D., 99.
—. See also Vinattieri, E., et al., jt. authors, 75.
Asdell, S. A., de Alba, J., & Roberts, J. S., 115.
—. See also Willman, J. P., et al., jt. authors, 169.
Ashburn, L. L., & Emmons, C. W., 41.
—. See also Daft, F. S., et al., jt. authors, 361.
Asheshov, I. N., & Strelitz, F., 321.
Askew, H. O., 111.
Asmundson, V. S. See Lepkovsky, S., et al., jt. authors, 443.
Asplin, F. D., 74.
—, Boyland, E., & Horton Smith, C., 410.
Astrup, I. See Astrup, T., jt. author, 364.
Astrup, T., & Astrup, I., 364.
Atkins, N. E. See Christie, R., et al., jt. authors, 179.
Atkins, W. R. G., & Fisher, R. A., 314.
Atkinsin, L. N. See Morris, M. L., et al., jt. authors, 196.
Atkinson, N., 64, 202.
—, & Stanley, N. F., 202.
—, Woodroofe, G. M., & Macbeth, A. M., 340.
Augustine, D. L., & Lherisson, C., 305.
—, Weinman, D., & McAlister, J., 57.
Avery, R. C., & Ward, C. B., 452.
—. See also Bush, M. T., et al. jt., authors, 452.
Avessalomov, I. S., 185.
Avreamenko, G. D. See Oleĭnik, N. K., jt. author, 38.
Axtmayer, J. H. See Krakower, C., et al., jt. authors, 14.

B

Babcock, L. C. See Supplee, G. C., et al., jt. authors, 110, *bis*.
Babsky, E. B., Kochergin, I. G., & Parin V. V., 464.
Babudieri, B., 346.
Bacigalupo, J., Pou, M. C., Calzvada, S. V., & Berninzoni, J., 192.
von Backstrom, U., 222.
Bacsich, P., & Wyburn, G. M., 116.
Badanin, N. V., & Vil'yams, V. V., 29.
Bader, M. N. See Anigstein, L., jt. author, 282.
Baier, W. E., & Manchester, T. C., 208.
Bailey, J. H. See Cavallito, C. J., et al., jt. authors, 243, 409.
Bailly, J., 456.
Baker, G. A., Mead, S. W., & Regan, W. M., 164.
Baker, J. A., 262.
—, & Greig, A. S., 262.
—, Terrence, J., & Greig, A. S., 262.
—. See also Hale, M. W., et al., jt. authors, 262.
—. See also Shope, R. E., et al., jt. authors, 261.
—. See also Walker, R. V. L., et al., jt. authors, 261.
Baker, M. See Brackett, S., et al., jt. authors, 123.
Baker, R. D., 295.
Bakerman, H. See Daft, F. S., et al., jt. authors, 361.
Bakuleva, N. A., 153.
Baldwin, E. M., Jr., 154.
Ball, E. G. See Rodkey, F. L., jt. author, 326.
Ball, R. F., 356.
Ball, Z. B. See Barnum, C. P., et al., jt. authors, 230.
—. See also Bittner, J. J., et al., jt. authors, 230.
Balozet, L., 453.
Baltazard, M. See Blanc, G., jt. author, 102.
Bankier, J. C., 100.
Barach, A. L. See Eckman, M., et al., jt. authors, 417.
Barach, B. See Eckman, M., et al., jt. authors, 417.
Barber, C. W., 194.
Barclay, T. H. C., Cuthbertson, D. P., & Isaacs, A., 455.
Barcroft, J., 272.
—, Danielli, J. F., Harper, W. F., & Mitchell, P. D., 24.
Barer, G., 460.
Bargmann, H. E. See Buckland, F. E., et al., jt. authors, 150.
Barile, C., 17.
Barke, A. See Völker, R., jt. author, 32.
Barker, C. A. V., 120.
Barlow, O. W. See McChesney, E. W., et al., jt. authors, 169.
Barnes, D. K. See Harvey, E. N., et al., jt. authors, 161, *bis*.
Barnes, L. A. See Cherry, W. B., et al., jt. authors, 340.
Barnes, M. W. See Finland, M., jt. author, 101.
—. See also Finland, M., et al., jt. authors, 100, 101, *quat*.
Barnett, L., 73.
Barnum, C. P., Ball, Z. B., Bittner, J. J., & Visscher, M. B., 230.
Barrett, E. P. See Brownlee, G., jt. author, 369.
Barrett, W. L., Jr. See Parman, D. C., et al., jt. authors, 306.
Barrons, K. C. See Huddleson, I. F., et al., jt. authors, 241.
Barth, E. E. See Gunn, F. D., et al., jt. authors, 387.
Bartlett, D. E., Hammond, D. M., & Garlick, G. G., 5.
—. See also Garlick, G. G., et al., jt. authors, 5.
—. See also Hammond, D. M., jt. author, 138, 218.
Bartlett, J. W. See Perry, E. J., jt. author, 115.
Barton, M., & Wiesner, B. P., 162, *bis*.
Baskett, R. G., Houston, J., Common, R. H., Bolton, W., & McConachy, S., 440.
Bassett, C. F., Harris, L. E., Smith, S. E., & Yeoman, E. D., 442.
—, —, & Wilke, C. F., 360.
Bastin. See Mouquin, jt. author, 231.
Basu, P. N., & Roy, R. N., 435.
Batham, E. J. See Whitten, L. K., jt. author, 103.

Battelli, C., 97, 146, 292.
—, Coceani, A., & Rossi, M., 344.
Bauer, J. H. See Sawyer, W. A., et al., jt. authors, 11.
Baumann, E., 329.
Bawa, H. S., 10.
Bazeley, P. L., 179, 386, *bis*.
Beach, J. R., 393.
Beamish, R. E. See Adamson, J. D., et al., jt. authors, 181.
Beard, D. See Beard, J. W., et al., jt. authors, 142.
—. See also McLean, I. W., Jr., et al., jt. authors, 99, 142.
—. See also Sharp, D. G., et al., jt. authors, 220.
—. See also Taylor, A. R., et al., jt. authors, 142.
Beard, J. W., Sharp, D. G., Taylor, A. R., McLean, I. W., Jr., Beard, D., Feller, A. E., & Dingle, J. H., 142.
—. See also McLean, I. W., et al., jt. authors, 99, 142.
—. See also Sharp, D. G., et al., jt. authors, 220.
—. See also Taylor, A. R., et al, jt. authors, 142.
Beaudette, F. R. See Jones, D., et al., jt. authors, 123.
Bechdel, S. I. See Vavich, M. G., et al., jt. authors, 362.
Bechtel, H. E., & McLeod, W. M., 129.
Beck, A. B. See Bennetts, H. W., jt. author, 358.
Becks, H., Simpson, M. E., Li, C. H., & Evans, H. M., 116.
—, —, Marx, W., Li, C. H., & Evans, H. M., 117.
Bedson, S. P., & May, H. B., 123.
Behrman, H. T. See Levin, O. L., jt. author, 294.
Bekker, P. M. See Groenewald, J. W., et al., jt. authors, 363.
Belding, T. C. See Burmester, B. R., et al., jt. authors, 398.
Bell, E. J. See Blake, F. G., et al., jt. authors, 70.
Bell, F. R., 122, 333.
—, & Jones, E. R., 198.
Bell, G. H., 239.
Bell, J. F., 134.
—, & Kahn, O. B., 281.
Beller, K., 85, 224, 339.
—, & Bieling, R., 261.
Belliappa, A. B., 73.
Bellon, M. T. See Giroud, A., et al., jt. authors, 52.
Belov, M. P., & Laskin, V. E., 258.
Belschner, H. G., 69, 396.
—, & Nicholson, A. J., 307.
Beltran, E., 186, 296.
Bénard, H. See Ramon, G., et al., jt. authors, 347.
Benbrook, E. A., 14, 420.
Bendixen, H. C., 373.
Benedict, R. G., Schmidt, W. H., Goghill, R. D., & Oleson, A. P., 118.
Benesch, R., 78.
Bengtson, I. A., 432, *bis*.
—. See also Topping, N. H., et al., jt. authors, 394.
Benham, G. H., 125.
Bennett, G. R. See Huddleson, I. F., et al., jt. authors, 340.
Bennett, W. A. See Uihlein, A., et al., jt. authors, 174.
Bennetts, W. H., 359.
—, & Beck, A. B., 358.
—. See also Mahaffey, L. W., et al., jt. authors, 195.
Berberian, D. A., 296.
Berg, B. N. See Zucker, T. F., et al., jt. authors, 404.
Berg, W. N., 329.
Berger, J., 2.
van der Berghe, L., 328.
—. See also Rodhain, J., jt. author, 328.
Bergna, H. D. P., 74.
Bergner, S. See Kligler, I. J., et al., jt. authors, 343.
Bernelli, E., 84.
Bernhardt, E., 250.
Bernheimer, A. W., 66, *ter*.
Berninzoni, J. See Bacigalupo, J., et al., jt. authors, 192.
Bernkopf, H. See Olitzki, L., jt. author, 302.
Berry, J. C., 128.
Berry, M. H. See Moore, L. A., jt. author, 359.
Bertrand. See Brion, A., jt. author, 296.
Beskhlebnov, A. V., 237.
—. See also Zalkind, S. Y., jt. author, 32.
Best, R. J., & Lugg, J. W. H., 190.
Bethea, W. R., Jr. See Schumacker, H. B., Jr., jt. author, 207.
Bethell, F. H. See Turkel, H., jt. author 329.
Beumer, J. See Bordet, P., jt. author, 266.
Beuvery-Asman, A., Klarenbeek, A., & Veenendaal, H., 452.
Beveridge, J. M. R., Lucas, C. C., & O'Grady, M. K., 402.
Beveridge, W. I. B., 144, 187, 189.
—, Burnet, F. M., & Williams, S. E., 68.
—, Stone, J. D., & Lind, P. E., 142.
—. See also Burnet, F. M., et al., jt. authors, 431.
Beyer, K. H., Peters, L., Woodward, R., & Verwey, W. F., 26.
—, Woodward, R., Peters, L., Verwey, W. F., & Mattis, P. A., 26.
Bhalerao, G. D., 192.
—, & Rao, N. S., 227.
Bhatnagar, S. S., & Shrivastava, D. L., 434.
Bhattacharji, L. M. See Singh, J., jt. author, 209.
Biavati, F. See Pacchioni, G., jt. author, 233.
Biddle, E. S. See Palmer, C. C., et al., jt. authors, 339.
Bieling, C., 105.
Bieling, R., 219.
—. See also Beller, K., jt. author, 261.
Bielschowsky, F., & Green, H. N., 355.
Bier, O. G., Leyton, G., Mayer, M. M., & Heidelberger, M., 13.
Bierbaum, O. S. See Reinhard, E. H., et al., jt. authors, 412.
Bierry, H., 232.
Bigelow, R. R. See Brunschwig, A., et al., jt. authors, 207.
Bigg, E., & Jennings, B. H., 416.
—, —, & Olson, F. C. W., 126.
—. See also Jennings, B. H., et al., jt. authors, 126.
Bigger, J. W., 320.
Biggs, C. L. See Graydon, J. J., jt. author, 207.
Bing, J., & Christensen, N. O., 269.
Biocca, E. See Travassos, J., jt. author, 375.
Biraud, Y., 49.
Bird, F. H. See Lepkovsky, S., et al., jt. authors, 443.
Bird, H. R., Mattingly, J. P., Titus, H. W., Hammond, J. C., Kellogg, W. L., Clark, T. B., Weakley, C. E., Jr., & Van Landingham, A. H., 313.
Birge, R. F., & Riser, W. H., 41.
Birkhaug, K., & Schjelderup, H., 291, 337.
Birkinshaw, J. H. See Coulthard, C. E., et al., jt. authors, 119.
Birrell, J. F., 156.
Bishop, A., & Gilchrist, B. M., 345.
Bissell, G. W. See Williams, R. H., jt. author, 246.
Bittner, J. J., Evans, C. A., & Green, R. G., 193.
—, & Huseby, R. A., 437.
—, —, Visscher, M. B., Ball, Z. B., & Smith, E., 230.
—. See also Barnum, C. P., et al., jt. authors, 230.
Black, W. H., Tash, L. H., Jones, J. M., & Kleberg, R. J., Jr., 270.
Black-Schaffer, B., 200.
—. See also Levy, B., jt. author, 259.
Blair, J. E., Carr, M., & Buchman, J., 409.
Blake, F. G., Maxcy, K. F., Sadusk, J. F., Jr., Kohls, G. M., & Bell, E. J., 70.
Blake, H. E. See McIntosh, J., et al., jt. authors, 59.
Blakemore, F., 18, 180.
Blanc, G., 5, 137.
—, & Baltazard, M., 102.
Blanc, R. A., 298.
Blandau, R. J., 198.
Blattner, R. J. See Smith, M. G., et al., jt. authors, 45.
Blaxland, J. D., & Gordon, R. F., 367.
—. See also Gordon, R. F., jt. author, 18.
Blaxter, K. L., 272, 444.
Bliss, C. I., 379.
Bliss, E. A., & Deitz, H. C., 119.
Blom, E., 286, 445.
—, & Christensen, N. O., 286.
Blood, D. C., & Steel, J. D., 318.
Blount, S. G., Jr. See Moore, F. D. et al., jt. authors, 214.
Blount, W. P., 170, 201.
Bloxsom, A., & Chandler, A. C., 103.
Bluestein, S. G. See Platt, W. R., et al., jt. authors, 413.
Blum, G. See Wakeley, C. P. G., jt. author, 26.
Blunn, C. T. See Grandstaff, J. O., jt. author, 52.
Blye, C. E. See Boyd, W. L., et al., jt. authors, 389.
Boake, W. C. See Burnet, F. M., et al., jt. authors, 431.
Bobyleva, E. A., 185.
Bode, W., 241.
Bodian, D., & Mellors, R. C., 23.
Bodingbauer, J., 455.
Bøe, J., 266.
Boero, J. J., 226.
Bohstedt, G. See Cunha, T. J., et al., jt. authors, 234.
—. See also Ross, O. B., et al., jt. authors, 234.
de Boissezon, P., & Valdiguié, P., 24.
Bolton, W. See Baskett, R. G., et al., jt. authors, 440.
Bonaduce, A., 38.
Bonanto, M. V. See Freund, J., jt. author, 395.
Bond, E. W., 5, 127.
—. See also Gwatkin, R., jt. author, 424.
Bondi, A., Jr., & Dietz, C. C., 372.
Bongert, J. G., 172, 366.
Boquet, A., 151.
—, & de Grolier, A., 87.
Boquet, P. See Ramon, G., et al., jt. authors, 347.
Bordet, J., & Bordet, P., 433.
Bordet, P., & Beumer, J., 266.
—. See also Bordet, J., jt. author, 433.
Borell, U., & Troell, L., 167.
Ter Borg, H., 438.
Bornstein, S. See Friedemann, U., et al., jt. authors, 44.
Borovich, A. A., 86.
Borts, I. H. See Jordan, C. F., et al., jt. authors, 389.
Botto, A. 358.
Boucher, W. F. See Nicholl, R. J., et al., jt. authors, 284.
Bouillaud, M. See Guilhon, J., jt. author, 353.
Bousfield, G., 150.
Bouvier, G. 395.
Bowie, D. A. See Thomas, S. B., jt. author, 30.
Bowman, K. See Brunner, M., et al., jt. authors, 354.
Bowman, M., 221.
—. See also Donovan, C. R., jt. author, 221.
Bowstead, J. E., Sackville, J. P., & Sinclair, R. D., 312, *bis*.
Boyd, E. M., Clark, K. L., & Elliott, R. C., 319.
Boyd, J. S. K., 258.
Boyd, L. J. See McGavack, T. M., et al., jt. authors, 454.
Boyd, W. C., 276, 352, 433.
—. See also Abramson, H. A., et al., jt. authors, 434.
Boyd, W. L., Kernkamp, H. C. H., Roepke, M. H., & Blye, C. E., 389.
Boyland, E. See Asplin, F. D., et al., jt. authors, 410.
—. See also Horton Smith, C., jt. author, 410, 411.
Brachetka, J., 229.
Brackett, S., & Hughes, C. O., 99.
—, Waletzky, E., & Baker, M., 123.
Bradbury, F. C. S., & Young, J. A., 213.

Brady, F. J. See Lawton, A. H., et al., jt. authors, 375.
—. See also Wright, W. H., jt. author 16.
Braga, A., 45, 149, 211, 288.
Brandt, H., 23.
Brandt, K., 32.
Bransby, E. R., 415.
Brant, A. W. See Evans, R. J., jt. author, 404.
Branton, C. See Seath, D. M., et al., jt. authors, 159.
Bratton, A. C., Jr., 322.
Braude, R., 159.
Braun, H., & Silberstein, W., 295.
Braun, W., 112, 425.
Brauss, F. W., 122.
Breneman, W. R. See Nicholson, L. W., jt. author, 441.
Bressou, C., & Vladutiu, O., 447.
Brewer, N. R., & Brownstein, B., 399.
Brewster, L. See Zamecnik, P. C., et al., jt. authors, 426.
Bridges, R. F., & Taylor, J., 424.
Bridré, J., 141.
—, & Martin, L. A., 68.
Brieger, E. M., & Fell, H. B., 95, 291.
Brinet, 187.
Brion, 393.
Brion, A., 391, *bis*.
—, & Bertrand, 296.
Britton, J. W., 107, 364.
—, & Howell, C. E., 157.
Brockington, C. F., 415.
Brodal, A., 440.
Brody, A. L. See Parman, D. C., et al., jt. authors, 306.
Brody, S., 384.
Bronson, L. H., & Parker, R. F., 187.
Brooks, R. F., & Hucker, G. J., 182.
Brown, A., & Tompsett, S. L., 240.
Brown, E. W. See Wheeler, S. M., et al., jt. authors, 127.
Brown, J. H., 256.
Brown, W. H., & Pearce, L., 233.
Browning, C. H. See Walls, L. P., et al., jt. authors, 204.
Brownlee, G., & Barrett, E. P., 369.
Brownstein, B. See Brewer, N. R., jt. author, 399.
Bruce, R. H., 160.
Bruckner, J. H. See Hutt, F. B., et al., jt. authors, 194.
Brues, A. M., & Shear, M. J., 398.
Bruford, J. W., & Fincham, I. H., 124.
Brumpt, E., 139, *bis*.
Bruner, D. W. See Edwards, P. R., jt. author, 388.
Bruner, J. A. See Sheehan, J. F., jt. author, 331.
Brunner, M., Altman, I., & Bowman, K., 354.
Brunschwig, A., Nichols, S., Bigelow, R. R., & Miles, J., 207.
Brush, H. V., 55.
Bruun, E., 434.
Bryan, C. S., 94, 462.
—, Cunkelman, J. W., & Young, F. W., 289.
—, —, —, & Visger, E. E., 369.
—, Horwood, R. E., & Huffman, C. F., 82.
—, & Young, F. W., 453.
Bryan, W. R. See Andervont, H. B., jt. author, 105.
Bryson, V. See Grace, E. J., jt. author, 242.
Buchanan, R. E., 174.
Buchman, J. See Blair, J. E., et al., jt. authors, 409.
Buckland, F. E., MacCallum, F. O., Dudgeon, A., Niven, J. S. F., Edward, D. G. ff., Rowlands, I. W., Henderson-Begg, A., van den Ende, M., Bargmann, H. E., Curtis, E. E., & Shepherd, M. A., 150.
—, & Stuart, R. D., 186.
Budd, V. See Yegian, D., et al., jt. authors, 423.
Buddle, M. B., 65.
Bueno, P., 69, 441.
Bueno, R. C. See Nobrega, P., jt. author, 65, *bis*.
Bugge, G., 48, 73.
Bull, C., 440.
Bull, L. B., 90.
—. See also Dick, A. T., jt. author, 359.
Bullier, P. See Urbain, A., et al., jt. authors, 96.
Burgess, F. See Cameron, G. R., et al., jt. authors, 439.
de Burgh, P., Jackson, A. V., & Williams, S. E., 189.
Burke, E. M. See Sheehy, E. J., et al., jt. authors, 442.
Burkholder, P. R., Evans, A. W., Mc Veigh, I., & Thornton, H. K., 202.
Burmester, B. R., 107, 125.
—, & Prickett, C. O., 399.
—, —, & Belding, T. C., 398.
—. See also Schaible, P. J., et al., jt. authors, 108.
Burn, C. G., Orten, A. U., & Smith, A. H., 51.
Burnet, F. M., 9.
—, Beveridge, W. I. B., McEwin, J., & Boake, W. C., 431.
—, & Stone, J. D., 187, 188, 220.
—. See also Beveridge, W. I. B., et al., jt. authors, 68.
Burroughs, A. L., Holdenried, R., Longanecker, D. S., & Meyer, K. F., 96.
Burskil, 83.
Buschke, W. H. See Cartwright, G. E., et al., jt. authors, 444.
Bush, M. T., Dickison, H. L., Ward, C. B., & Avery, R. C., 452.
—, Goth, A., & Dickison, H. L., 202.
Bushland, R. C., McAlister, L. C., Jr., Eddy, G. W., Jones, H. A., & Knipling, E. F., 28.
Butler, E. C. B., 168.
Butler, W. J., 36, 175.
Butterfield, C. T., & Wattie, E., 456.
Buxton, A. See Gordon, R. F., jt. author, 257, 377.
Buxton, P. A., 206.
von Buza, L., 429.
Buzenac, J., 393.
Buzenac, M., 269.
Byrne, J. L., Pullin, J. W., & Konst, H., 370.
Byrom, F. B., 174.

C

Cabell, C. A. See Ellis, N. R., et al., jt. authors, 313.
Cable, R. M., 36.
Cabot, D., 140.
Cahill, W. M. See Maun, M. E., et al., jt. authors, 158.
Cain, C. K. See Hays, E. E., et al., jt. authors, 451.
Caldwell, M. J., & Hughes, J. S., 54.
Calisti, V., 55.
Calver, K. M., 244.
—. See also Walls, L. P., et al., jt. authors, 204.
Calvery, H. O., 201.
—. See also Draize, J. H., et al., jt. authors, 241.
—. See also Fitzburgh, O. G., et al., jt. authors, 25.
—. See also Nelson, A. A., et al., jt. authors, 25.
Calzvada, S. V. See Bacigalupo, J., et al., jt. authors, 192.
Camberos, H. R. See Damonte, F. R., jt. author, 283.
Cameron, A. T., Meltzer, S., & Lederman, J. M., 18.
Cameron, G. R., 56, 368.
—, Burgess, F., & Trenwith, V., 439.
Cameron, H. S., & McOmie, W. A., 82.
Cameron, J. D., & Edge, J. R., 166.
Cameron, T. W. M., 83, 152.
Campbell, A. D., & Rodwell, A. W., 389.
Campbell, A. G., & Gibbard, J., 84.
Campbell, D. H., & McCasland, G. M., 434.
Campbell, G. A., & West, T. F., 282.
Campbell, J. G., 138, 437.
Campbell, R. L., 400.
Campion, R. L. See Rossi, F. A., jt. author, 298.
Canessa, S., 348.
Cano, A. E. See Mata, E. G., jt. author, 286.
Cantarow, A., 252.
Card, L. E. See Severens, J. M., et al., jt. authors, 40, 243.
Carlson, W. E. See Green, R. G., jt. author, 100.
Carlton, L. M., Jr., Rasmussen, R. A., & Adams, W. E., 233.
Carmichael, J., 378.
—. See also Stuart-Harris, C. H., et al., jt. authors, 101.
Carneiro, V., 68.
Carpano, M., 67, 344.
Carpenter, D. C. See Metcalf, D., et al., jt. authors, 444.
Carr, M. See Blair, J. E., et al., jt. authors, 409.
Carroll, C. J. See Hays, E. E., et al., jt. authors, 451.
Carruthers, D. G., 196.
Carter, C. W., McFarlane, R. G., O'Brien, J. R. P., Robb-Smith, A. H. T., & Amos, B., 405.
Carter, H. B., 363.
Cartwright, G. E., Wintrobe, M. M., & Humphreys, S., 443.
—, Wintrobe, M. M., Buschke, W. H., Follis, R. H., Jr., Suksta, A., & Humphreys, S., 444.
Carvaljo, J. C. M., 98.
Casals, J., 347.
—, & Olitsky, P. K., 300.
—. See also Olitsky, P. K., jt. author, 219.
Case, R. A. M., 118.
Casida, L. E., McShan, W. H., & Meyer, R. K., 125.
Caspe, S., 117.
Cassamagnaghi, A., & Cassamagnaghi, A., hijo, 269.
Cassamagnaghi, A., hijo. See Cassamagnaghi, A., jt. author, 269.
Casselberry, N. H. See Wood, F. W., et al., jt. authors, 148.
Castagnet, A. D., & Pozzi, C. M., 254.
de Castro Ferreira, L. See Laemmert, H. W., Jr., jt. author, 224.
de Castro, M. P. See Pereira, C., jt. author, 88.
Catanei, A., 216, 342.
Cateno, C. See Moldavsky, L. F., et al., jt. authors, 409.
Caul, J. F. See Supplee, G. C., et al., jt. authors, 110, *bis*.
Caulfield, W. J., & Martin, W. H., 171.
Cauthen, G. E., 118.
Cavallito, C. J., Bailey, J. H., Haskell, T. H., McCormick, J. R., & Warner, W. F., 409.
—, Kirchner, F. K., Miller, L. C., Bailey, J. H., Klimek, J. W., Warner, W. F., Suter, C. M., & Tainter, M. L., 243.
Cavandoli, H. E., 294.
Cavelti, E. S. See Cavelti, P. A., jt. author, 195.
Cavelti, P. A., 190.
—, & Cavelti, E. S., 195.
Cecil, R. L., 413.
Cekada, E. B. See Rifkin, H., et al., jt. authors, 223.
Cella, F., 63.
Chaikoff, I. L. See Sheline, G. E., et al., jt. authors, 22.
Chalkina, O. M. See Tovarnizky, V. I., jt. author, 299.
Challinor, S. W. See McAdam, I. W. J., et al., jt. authors, 243.
Chamberlin, N. S. See Griffin, A. E., jt. author, 171.
Chamberlin, V. D. See Kennard, D. C., jt. author, 360.
Chambers, M. C. See Forgacs, J., et al., jt. authors, 451.
—. See also Kornegay, G. B., et al., jt. authors, 451.
Chamorro, A., 446.
Chance, H. L., & Allen, W. C., 424.
Chandler, A. C., 384.
—. See also Addis, C. J., jt. author, 48.
—. See also Bloxsom, A., jt. author, 103.
Chang, S. L., 42, 344.
Chapman, A., Higgins, G. M., & Mann, F. C., 117.
Chapman, G. H., 179, 250.
Chapron, F., 400.
Charavanapavan, C., 177.
Chargaff, E., & Moore, D. H., 63.
Charton, A., & Milin, J., 193.
—. See also Robin, V., jt. author, 459.

Chary, R. See Legendre, J. M., jt. author, 439.
Chase, F. E., & Wright, M. L., 340.
Chase, J. H. See Dougherty, T. F., et al., jt. authors, 433.
Chavance, J., 404.
Chawdhury, S. K., 182.
Chelle, P., & Lombard, C., 193.
Chen, G., & Geiling, E. M. K., 281.
—, —, & MacHatton, R. M., 453.
Chernov, V. N., & Tikhomirov, N. P., 103.
Cherry, W. B., Barnes, L. A., & Edwards, P. R., 340.
Chiama, D., 254.
Chin, Y. C. See Chou, C., jt. author, 448.
Chou, C., & Chin, Y. C., 448.
Christensen, N. O. See Bing, J., jt. authors, 269.
—. See also Blom, E., jt. author, 286.
Christiansen, M. J., 415.
Christie, R., Atkins, N. E., & Munch-Petersen, E., 179.
—, Graydon, J. J., & Woods, E. F., 179.
—. See also North, E. A., jt. author, 372.
Chu, H. P., & Sheng, T. S., 410.
Chumakov, M. P., Mironov, V. S., Petrova, S. P., Orlova, N. N., & Shluger, E. G., 300.
—, & Naidenova, G. A., 300.
Churchill, H. M., & Coburn, D. R., 121.
Churchward, R. E. See Clay, A. L., jt. author, 180.
Cilli, V., 301.
—, & Andolfato, A., 389.
—, & Coceani, A., 301.
—, & Corazzi, G., 369.
Clagett, O. T. See Uihlein, A., et al., jt. authors, 174.
Clapham, P. A., 192.
Clare, N. T., 279.
Clark, D. M. See Smith, D. G., et al., jt. authors, 372.
Clark, E. M. See Craigie, J., et al., jt. authors, 350.
Clark, K. L. See Boyd, E. M., et al., jt. authors, 319.
Clark, P. F. See Donaldson, P., jt. author, 429.
Clark, R., 363.
—, Groenewald, J. W., & Malan, J. R., 363.
—. See also Groenewald, J. W., et al., jt. authors, 363, *bis*.
Clark, R. T. See Nordskog, A. W., jt. author, 450.
Clark, T. B. See Bird, H. R., et al., jt. authors, 313.
Clavero, G. & Gallardo, F. P., 72.
Clay, A. L., & Churchward, R. E., 180.
Clegg, R. E. See Satterfield, G. H., et al., jt. authors, 234.
Cler, G. D. See Ubach, F. A., jt. author, 311.
Clift, A. F., 239.
Coatney, G. R., Cooper, W. C., & Trembley, H. L., 186.
Cobbett, N. G., & Smith, C. E., 282.
Coburn, A. F., 413.
Coburn, D. R., See Churchill, H. M., jt. author, 121.
Coceani, A., 410.
—. See also Battelli, C., et al., jt. authors, 344.
—. See also Cilli, V., jt. author, 301.
Coffin, D. L., 212.
Coghill, R. D. See Benedict, R. G., et al., jt. authors, 118.
—. See also Raper, K. B., et al., jt. authors, 118.
Cogswell, R. C. See Spies, T. D., et al., jt. authors, 362.
Cohen, P. P., 79.
Cohen, S. S., 151.
Cohn, M. L. See Corper, H. J., jt. author, 132, 338.
Cohrs, P., 166.
—, & Streich, W., 133.
Cole, C., 278.
Cole, C. L. See Hawkins, P. A., jt. author, 48.
—. See also Hawkins, P. A., et al., jt. authors, 48.
Cole, G. E., 129.
Cole, H. H., Hart, G. H., & Miller, R. F., 164.
—, & Kleiber, M., 155.
Cole, R. K. See Hutt, F. B., et al., jt. authors, 194.
Coley, B. L. See Nauts, H. C., et al., jt. authors, 376.
Collins, H. C. See Kirk, R. J., jt. author, 149.
Collins, L. A. See Forgacs, J., et al., jt. authors, 451.
—. See also Kornegay, G. B., et al., jt. authors, 451.
Colwell, C. A. See Gunn, F. D., et al., jt. authors, 422.
Comby, L. See Morquer, R., jt. author, 136.
Common, R. H., & Lamont, H. G., 361.
—. See also Baskett, R. G., et al., jt. authors, 440.
Compte, E. J., 277.
Compton, L. S., 99.
Conachie, J. See Underwood, E. J., jt. author, 402.
Conn, E., 157.
Connelly, J. W. See Andrews, J. S., jt. author, 73, 103.
Conner, G. H., 18.
Conradi, H. 164.
Cook, C. E., 351.
Cooke, B. T. See Hurst, E. W., jt. author, 75.
—. See also Hurst, E. W., et al., jt. authors, 188.
Coombs, R. R. A., Mourant, A. E., & Race, R. R., 305.
Cooney, W. T., 24.
Cooper, C. T. See Ellis, J. H., jt. author, 231.
Cooper, K. W. See Harvey, E. N., et al., jt. authors, 161.
Cooper, T. V., 416.
Cooper-Willis, E. S. See MacKenna, R. M. B., jt. author, 82.
Cooper, H. K., 262.
Cooper, W. C. See Coatney, G. R., et al., jt. authors, 186.
Copley, A. L., & Robb, T. P., 276.
Copp, D. H., & Greenberg, D. M., 112.
Corazzi, G. See Cilli, V., jt. author, 369.
Cordsen, M. See Gaunt, R., et al., jt. authors, 116.
Cornil, L., Poursines, Y., & Dumont-Legré, 448.
Corper, H. J., 132, 387.
—, & Cohn, M. L., 132, 338.
Corradetti, A., 7, *bis*.
Corrêa, 61.
Corey, M. See Eaton, M. D., et al., jt. authors, 100.
Cory, R. A. S., 95.
Cotchin, E., 38.
Cotoni, L., 39.
Cotter, J. W. See Moore, L. A., jt. author, 160.
Cotton, C. See Rabstein, M. M., jt. author, 388.
Coulston, F. See Taliaferro, L. G., et al., jt. authors, 82.
Coulthard, C. E., Michaelis, R., Short, W. F., Sykes, G., Skrimshire, G. E. H., Standfast, A. F. B., Birkinshaw, J. H., & Raistrick, H., 119.
Cover, M. S., 244.
Cowen, D., & Wolf, A., 297.
Cowie, A. T., 366.
—, & Folley, S. J., 446.
Cragg, J. B., 28.
—, & Ramage, G. R., 306.
Craige, A. H., Jr., & Kleckner, A. L., 454.
Craigie, J., Watson, D. W., Clark, E. M., & Malcomson, M. E., 350.
Cramer, D. L., & Dodd, M. C., 456.
Crampton, E. W., & Mills, M. F., 110.
Crawford, 183.
Crawford, A. B. See Schoening, H. W., jt. author, 219.
Crawford, M., 98.
Crawshaw, E. J., 386.
Crescitelli, F. N. See Philips, F. S., et al., jt. authors, 449.
Cressman, A. R. See Huddleson, I. F., et al., jt. authors, 340.
Crisman, D. W. See Klein, L. A., et al., jt. authors, 120.
Cross, F. See Deem, A. W., jt. author, 97.
Crowley, J. H. See Rickard, E. R., et al., jt. authors, 143.
Cruickshank, R. See Dolphin, A., jt. author, 57.
Cruickshank, W. D., 461.
Cruveilhier, L., & Viala, C., 44.
de la Cruz, F. M., 62.
Csiki, V., 407.
Csontos, J., & Derzsi, D., 88.
Cuckler, A. C., & Alicata, J. E., 267.
Culbertson, J. T., Rose, H. M., & Oliver-Gonzalez, J., 375.
Culp, O. S., Magid, M. A., & Kaplan, I. W., 58.
Culpepper, G. H., 209.
Culter, J. W., 32.
Cumberland, M. C. See Young, L. E., jt. author, 349.
Cummins, S. D. See Watt, J., jt. author, 371.
Cunha, 61.
Cunha, T. J., Ross, O. B., Phillips, P. H., & Bohstedt, G., 234.
—. See also Ross, O. B., et al., jt. authors, 234.
Cunkelman, J. W. See Bryan, C. S., et al., jt. authors, 289, 369.
Cunningham, C. H., & Stuart, H. O., 127.
Cunningham, I. J., 111.
—, & Hopkirk, C. S. M., 278.
Cuocolo, R. See Mello, M. J., jt. author, 105.
Curnen, E. C. See Horsfall, F. L., jt. author, 301, 349.
Curnow, D. H. See Underwood, E. J., jt. author, 403.
—. See also Underwood, E. J., et al., jt. authors, 79.
Curran, H. R., & Evans, F. R., 319.
Curtis, E. E. See Buckland, F. E., et al., jt. authors, 150.
Curtis, M. R. See Dunning, W. F., jt. author, 355.
Cutbill, L. J., 84.
Cuthbertson, D. P. See Barclay, T. H. C., et al., jt. authors, 455.
Cutter, W. W. See Hauser, E. D. W., jt. author, 207.
Cutting, W. C., Ludueña, F. P., Fiese, M., Elliott, H. W., & Field, J., 11, 372.
—. See also Armstrong, C. D., et al., jt. authors, 319.

D

Dack, G. M. See Surgalla, M., jt. author, 327.
Daft, F. S., Kornberg, A., Ashburn, L. L., Sebrell, W. H., & Bakerman, H., 361.
—. See also Kornberg, A., et al., jt. authors, 207.
Dalldorf, G. See Jungeblut, C. W., jt. author, 302.
Dalmatov, M., 459.
Dalton, A. J., & Peters, V. B., 106.
Dammin, G. J., & Weller, T. H., 151.
—. See also Weller, T. H., jt. author, 285, 460.
Damonte, F. R., & Camberos, H. R., 283.
Danforth, C. H., 446.
Daniel, L. J., Farmer, F. A., & Norris, L. C., 442.
Danielli, J. F. See Barcroft, J., et al., jt. authors, 24.
Danielson, R. W. See Long, J. C., jt. author, 440.
Danowski, T. S., Winkler, A. W., & Peters, J. P., 440.
D'Apice, 61.
Darby, C. W., 65.
Dardinski, V. J., 118.
Darraspen, E., Florio, R., & Senterac, P., 356.
Das, D. N. See Mukerji, A., jt. author, 294.
Davey, M. E. See Albert, A., et al., jt. authors, 120.
David, W., 7.
Davidson, F. R., 383.
Davidson, J. L., 111, 367.
Davidson, J. N., 165.
Davidson, W. B., 160.
Davies, D. V., 198, 277.

Davies, J. L., 415.
Davis, B. D. See Dubos, R. J., jt. author, 423.
Davis, C. L. See Harne, O. G., et al., jt. authors, 53.
—. See also Jones, T. C., et al., jt. authors, 44.
Davis, G. K., Mehrhof, N. R., & McKinney, R. S., 279.
Davis, H. P. See Trimberger, G. W., jt. author, 445.
Davis, J. B. See Spotts, S. D., jt. author, 170.
Davis, J. G., 248.
Davis, L. J., 73.
Davis, R. M. See Maun, M. E., et al., jt. authors, 158.
Dawson, M. H. See Hobby, G. L., jt. author, 451.
Day, F. T., & Hammond, J., Jr., 366.
—. See also Hamilton, W. J., jt. author, 163.
Day, H. B., 12.
Deadman, W. J., 228.
Deane, H. W., 365.
Deanesly, R., Emmett, J., & Parkes, A. S., 274.
—, Folley, S. J., & Parkes, A. S., 446.
—, & Parkes, A. S., 274, *bis*.
Dechambre, E., Guillot, G., & Roth, P., 97.
Deem, A. W., & Cross, F., 97.
Deitz, H. C. See Bliss, E. A., jt. author, 119.
Dekaris, V., 289.
Delak, M., 29.
Delaplane, J. P., 50.
—. See also Thompson, J. N., jt. author, 124.
Delaune, E. T., & Mayhew, B. R., 16.
Delbrück, M., 189, *ter*.
Delez, A. L., 46.
Delvin, H. B. See Zittle, C. A., et al., jt. authors, 295.
Demerec, M., 242.
Demidov, N. G., 13.
Demont, 489.
Dempsey, E. W., & Wislocki, G. B., 117, 406.
Deonier, C. C. See Parman, D. C., et al., jt. authors, 306.
Deringer, M. K., Heston, W. E., & Andervont, H. B., 106.
Derzsi, D. See Csontos, J., jt. author, 88.
Deschiens, R., 58, 374, 436.
Desmond, T. C., 16.
Desportes, C., 104.
Desyatov, F. M. See Nikol'skiĭ, S. N., et al., jt. authors, 219.
Devignat, R., 173, 208.
Devlin, L. W., 179.
Devloo, S., 43.
Dewey, H. M., & Wormall, A., 453.
Dhanda, M. R. See Minett, F. C., jt. author, 180.
Dick, A. T., 329.
—, & Bull, L. B., 359.
Dickey, E. S., 210.
Dickinson, L., 258.
Dickison, H. L. See Bush, M. T., et al., jt. authors, 202, 452.
Diehl, K., 132.
Dienes, L., 390.
Dietz, C. C. See Bondi, A., Jr., jt. author, 372.
Dimock, W. W. See Westerfield, C., jt. author, 429.
Dindinaud, M., 282.
Ding, E., 150.
Dingle, J. H., 224.
—. See also Beard, J. W., et al., jt. authors, 142.
Dingwall, J. A., 455.
—. See also Hoffman, R. S., jt. author, 84.
Dittmar, 49.
Dixon, R. F. See Lande, F., jt. author, 31.
Dodd, M. C. See Cramer, D. L., jt. author, 456.
Dodds, E. C., Millin, T., Riches, E. W., Simpson, S. L., Williams, Ward, O., & Wright, D., 246.
Doetschman, W. H., 285.
Doherty, A. G., 34.
Doherty, D. G. See Overman, R. S., et al., jt. authors, 368.
Doisy, E. A. See Hays, E. E., et al., jt. authors, 451.
Dold, H., & Ketterer, M., 96.
Dolphin, A., & Cruickshank, R., 57.
Donaldson, P., & Clark, P. F., 429.
Doney, C. See Ebright, R. E., et al., jt. authors, 174.
Donovan, C. R., & Bowman, M., 221.
Doria, C., 39.
Dorin, R. P., 397.
Dougherty, T. F., Chase, J. H., & White, A., 433.
—, & White, A., 55, 164.
Dove, W. E. See Simmons, S. W., jt. author, 29.
Dow, R. S. See Anderson, R., et al., jt. authors, 156.
Dowdy, A. H. See Favata, B. V., et al., jt. authors, 215.
Doyle, L. P. See Shrewsbury, C. L., et al., jt. authors, 278.
Doyle, T. M., 133.
—, & McIlroy, W. J., 69.
Doyle, W. L., 67.
Draize, J. H., Woodard, G., Fitzhugh, O. G., Nelson, A. A., Smith, R. B., Jr., & Calvery, H. O., 241.
—. See also Nelson, A. A., et al., jt. authors, 25.
Drake, C. H., 371.
Dransfield, J. W., 408.
Drea, W. F., 213, 422.
Drew, L. G. W. See Todd, E. W., et al., jt. authors, 119.
Drieux, H., 413.
—, Poisson, J., & Vasseur, M., 193.
—, & Thiery, G., 405.
—. See also Verge, J., et al., jt. authors, 259.
Drill, V. A., & Gunn, F. D., 54.
—. See also Havens, W. P., Jr., et al., jt. authors, 302.
van Drimmelen, G. C., 238.
Duarte, A. T., 24.
Dubash, J., & Teare, D., 241.
DuBois, A. S. See Valko, E. I., jt. author, 376.
Dubos, R. J., 408.
—, & Davis, B. D., 423.
Dudgeon, A. See Buckland, F. E., et al., jt. authors, 150.
Dudley, F. J. See Temperton, H., jt. author, 246.
—. See also Temperton, H., et al., jt. authors, 403.
Dudzus, G., 74.
Duffy, C. E., & Stanley, W. M., 300.
DuFrain, J. See Huddleson, I. F., et al., jt. authors, 241.
Duguid, J. P. See McAdam, I. W. J., et al., jt. authors, 243.
Dumont-Legré. See Cornil, L., et al., jt. authors, 448.
Duncan, C. W. See Reid, J. T., et al., jt. authors, 108, 314.
Duncan, J. T., 5.
—. See also Thomas, B. A., et al., jt. authors, 259.
Dunn, R. C. See Fairhall, L. T., et al., jt. authors, 240.
Dunn, T. B., 109.
Dunning, W. F., & Curtis, M. R., 355.
Dunphy, J. E., 108.
Duran-Jorda, F., 276.
Durand, P., 9.
Durant, A. J., 73.
Durrell, W. B., 160.
Dutcher, R. A. See Pence, J. W., et al., jt. authors, 404.
—. See also Vavich, M. G., et al., jt. authors, 362.
Duthie, E. S., 372.
—, & Wylie, J. A. H., 250.
—. See also Abraham, E. P., jt. author, 320.
Dvoskin, S., 80.
Dzasokhov, G. S., 186.

E

Eagle, H., 410.
—. See also Hogan, R. B., jt. author, 241.
Eales, C. E. See Turner, A. W., jt. author, 389.
Earl, W. B., 336.
Eaton, M. D., & Hanford, V. L., 454.
—, van Herick, W., & Meiklejohn, G., 100.
—, & Meiklejohn, G., 143.
—, —, van Herick, W., & Corey, M., 100.
—. See also Van Herick, W., jt. author, 295.
—. See also Sawyer, W. A., et al., jt. authors, 11.
Ebert, M. K. See Zelevinskaya, S. A., jt. author, 258.
Ebright, R. E., Hunter, F., & Doney, C., 174.
Echavarría, A. C., 226.
Eckman, M., Rumsey, C. C., Jr., Barach, B., & Barach, A. L., 417.
Eddy, G. W., & Joyce, C. R., 307.
—. See also Bushland, R. C., et al., jt. authors, 28.
Edge, J. R. See Cameron, J. D., jt. author, 166.
Edmonds, E. V., 204.
Edward, D. G., ff. See Buckland, F. E., et al., jt. authors, 150.
Edwards, J. T., 415.
Edwards, M. See Morris, C. S., jt. author, 30.
Edwards, M. A. See Grubb, T. C., jt. author, 343.
Edwards, P. R., & Bruner, D. W., 388.
—. See also Cherry, W. B., et al., jt. authors, 340.
Edwards, S. J., de Ropp, R. S., & McLeod, D. H., 341.
Egehøj, J., 398.
Egli, H., 2.
Ehrich, W. E., Halbert, S. P., Mertens, E., & Mudd, S., 304.
—, Harris, T. N., & Mertens, E., 433.
Eichler, W., 191.
Ekedahl, V. See Hazeltine, B. M., jt. author, 380.
Eklund, C. M., 347.
Ekman, C. A., & Naumann, B., 239.
Eldridge, W. W. See Emmons, C. W., et al., jt. authors, 295.
Elias, H. See McGavack, T. M., et al., jt. authors, 454.
Elizalde, P. I., Monserrat, J. L., & Anchezar, B., 291.
Elliott, H. W. See Cutting, W. C., et al., jt. authors, 372.
—. See also Norris, E. R., jt. author, 448.
Elliott, R. C. See Boyd, E. M., et al., jt. authors, 319.
Elliott, S. D., 385.
Ellis, G. H. See Smith, S. E., et al., jt. authors, 20, *bis*.
Ellis, J. H., & Cooper, C. T., 231.
Ellis, N. R., Cabell, C. A., Elmslie, W. P., Fraps, G. S., Phillips, P. H., & Williams, D. E., 313.
Ellis, V. A., 159.
Elmes, B. G. T., 205.
Elmslie, W. P. See Ellis, N. R., et al., jt. authors, 313.
Elvehjem, C. A., Gonce, J. E., Jr., & Newell, G. W., 235.
—. See also Evenson, A., et al., jt. authors, 426.
—. See also Krehl, W. A., jt. author, 112.
—. See also Krehl, W. A., et al., jt. authors, 443.
—. See also Schweigert, B. S., et al., jt. authors, 443.
—. See also Teresi, J. D., et al., jt. authors, 159.
—. See also Wagner, J. R., jt. author, 402.
van Emden, F. I., 103.
Emerson, G. A., & Smith, D. G., 372.
Emlen, J. T., Jr. See Richter, C. P., jt. author, 378.
Emmart, E. W., 338.
Emmel, A. F. See Mason, K. E., jt. author, 51.
Emmel, M. W., 408.
Emmett, J. See Deanesly, R., et al., jt. authors, 274.
Emmons, C. W., Olson, B. J., & Eldridge, W. W., 295.
—. See also Ashburn, L. L., jt. author, 41.

van den Ende, M. See Buckland, F. E., et al., jt. authors, 150.
Ender, F., & Helgebostad, A., 272.
Enders, R. K., 175.
Enuicott, K. M., See Kornberg, A., et al., jt. authors, 207.
Engley, F. B., Jr. See Morton, H. E., jt. author, 351, *bis*.
Engk, K., 218, 391, 394.
Enzie, F. D., 206, *bis*.
—, Habermann, R. T., & Foster, A. O., 124.
—. See also Habermann, R. T., et al., jt. authors, 374.
Erickson, A. B., 267.
Erickson, J. O. See Martin, D. S., et al., jt. authors, 13.
Erlich, I., 47.
Ershov, V. S., 48.
Eschenbrenner, A. B., 106.
Essen, K. W., & Lembke, A., 149.
Essex, H. E., 25.
Evampieva, N. A., 238.
Evans, A. C., 337.
Evans, A. W. See Burkholder, P. R., et al., jt. authors, 202.
Evans, C. A. See Bittner, J. J., et al., jt. authors, 193.
Evans, D. G., 225.
—, Fuller, A. T., & Walker, J., 121.
Evans, E. I., Hoover, M. J., & James, G. W., 284.
Evans, F. R. See Curran, H. R., jt. author, 319.
Evans, H. M. See Becks, H., et al., jt. authors, 116, 117.
Evans, R. B. See Hunter, D., et al., jt. authors, 240.
Evans, R. J., & Brant, A. W., 404.
Eveleth, D. F., & Goldsby, A. I., 17.
Evenson, A., McCoy, E., Geyer, B. R., & Elvehjem, C. A., 426.
Ewer, T. K. See Fitch, L. W. N., jt. authors, 197.
Ewert, H., 447.
Ewing, F. M. See Haas, V. H., jt. author, 138.
—. See also Haas, V. H., et al., jt. authors, 128.

F

Faber, H. K., & Silverberg, R. J., 432.
Fabre, M. See Guillaumie, M., et al., jt. authors, 72.
Faget, G. H., & Pogge, R. C., 280.
De Fagonde, A. P., 292.
Fairhall, L. T., Dunn, R. C., Sharpless, N. E., & Pritchard, E. A., 240.
Farmer, F. A. See Daniel, L. J., et al., jt. authors, 442.
Farmer, V. C. See Stewart, J., et al., jt. authors, 402.
Farner, D. S., 275.
Farquharson, J., 430.
Farr, M. M., & Wehr, E. E., 373.
—. See also Wehr, E. E., jt. author, 373.
Fastier, L. B., 340.
Faulkner, D. E., 419.
Favata, B. V., Dowdy, A. H., Sewell, R. L., & Vincent, J. G., 215.
Fawns, H. T., Folley, S. J., & Young, F. G., 52.
Featherly, H. I., 278.
—, & Harmon, K. S., 83.
Fedorov, A. I., 45.
Fedotov, A. I., 455.
Feffer, H. L. See Hirsh, H. L., et al., jt. authors, 451.
Fekete, E., 445.
Fekete, F., 357.
Feldman, H. A. See Haas, V. H., et al., jt. authors, 128.
Feldman, W. H., & Hinshaw, H. C., 410.
—, —, & Mann, F. C., 410.
Feldt, A., 321.
Felix, A., 72.
—. See also Stuart-Harris, C. H., et al., jt. authors, 101.
Fell, E. H., & Hanselman, R., 376.
Fell, H. B. See Brieger, E. M., jt. author, 95, 291.
Feller, A. E. See Beard, J. W., et al., jt. authors, 142.
Felsenfeld, O., & Young, V. M., 388.
Fenstermacher, R. See Olsen, O. W., jt. author, 308.
Ferguson, L. C. See Pounden, W. D., et al., jt. authors, 172.
Ferneau, I. F. See Largent, E. J., et al., jt. authors, 81.
Ferraro, F., 169.
Ferreira, E. A., 358.
Ferreira, J. 220.
Ferroni, F., 79.
Ferwerda, S. See Tenheaff, C., jt. author, 15.
Fethers, G., 59.
Field, E. J., 447.
Field, H. I., & Smith, H. W., 179, 254.
—. See also Rowlands, W. T., jt. author, 131.
Field, J., II. See Cutting, W. C., et al., jt. authors, 372.
Field, J. B., Larsen, E. G., Spero, L., & Link, K. P., 368.
Fielding, J. W., 339.
Fiennes, R. N. T.-W., 43, 344.
—, Jones, E. R., & Laws, S. G., 344.
Fiese, M. See Cutting, W. C., et al., jt. authors, 372.
Figueroa, L. See Lleras, A. S., jt. author, 45.
Filatov, 123.
Filatova, A. G. See Toroptsev, I. V., jt. author, 322.
Filimonov, M. N., 28.
Fincham, I. H., 199.
—. See also Bruford, J. W., jt. author, 124.
Findlay, G. M., Martin, N. H., & Mitchell, J. B., 431.
—, & Wilcox, R. R., 302.
Fine, J. M. See Melamed, A., jt. author, 398.
Finland, M., & Barnes, M. W., 101.
—, Peterson, O. L., Allen, H. E., Samper, B. A., & Barnes, M. W., 101.
—, —, —, —, —, & Stone, M. B., 100.
—, —, Barnes, M. W., & Stone, M. B., 101.
—, Samper, B. A., & Barnes, M. W., 101.
—, —, —, & Stone, M. B., 101.
Fischer, I. See Negroni, P., jt. author, 409.
Fisher, A. M., 409.
Fisher, J. W., & Scott, P., 220.
Fisher, P. See Pererson, C. S., jt. author, 242.
Fisher, R. A. See Atkins, W. R. G., jt. author, 314.
Fitch, L. W. N., 197.
—, & Ewer, T. K., 197.
Fitzburgh, O. G., Nelson, A. A., & Calvery, H. O., 25.
Fitzhugh, O. G. See Draize, J. H., et al., jt. authors, 241.
—. See also Nelson, A. A., et al., jt. authors, 25.
Fitzsimons, M. P., 239.
Fladness, S. O., 36.
Flatla, J. L., 412.
Fleischmann, W., & Fried, I. A., 446.
Fleming, A., 173.
Flett, L. H., Haring, R. C., Guiteras, A. F., & Shapiro, R. L., 343.
Fleury, P., 148.
Flood, A. F. See Mahaffey, L. W., et al., jt. authors, 195.
Florence, C. H. See Moreira, J., jt. author, 111.
Florey, H. W., 81.
—, Gilliver, K., Jennings, M. A., & Sanders, A. G., 242.
—, Jennings, M. A., & Sanders, A. G., 409.
Florin, M. C., 158.
Florio, R. See Darraspen, E., et al., jt. authors, 356.
Florman, A. L., 393.
—, & Weiss, A. B., 128.
Flückiger, G., 10, 219, 428.
Folch, J. See Zamecnik, P. C., et al., jt. authors, 426.
Foley, H., & Parrot, L., 63.
Foley, J. 458.
Folley, G. E. See Getting, V. A., et al., jt. authors, 81.
Folley, S. J., Malpress, F. H., & Young, F. G., 52, 53.
—, & Young, F. G., 52.
—. See also Cowie, A. T., jt. author, 446.
—. See also Deanesly, R., et al., jt. authors, 446.
—. See also Fawns, H. T., et al., jt. authors, 52.
Follis, R. H., Jr., & Wintrobe, H. W. 405.
—. See also Cartwright, G. E., et al., jt. authors, 444.
Fomina, A., Kruglov, A., Myshkin, P., & Kalsarov, A., 131.
Fomina, A. R. See Klur-Muratov, A. P., et al., jt. authors, 131.
Fomina, A. Y., 133.
Forbus, W. D., 400.
—. See also Margolis, G., et al., jt. authors, 135.
Forestier, E. See Guilhon, J., jt. author, 307.
Forgacs, J., Kornegay, G. B., Henley, T. F., Redmon, C. F., Collins, L. A., & Chambers, M. C., 451.
—. See also Kornegay, G. B., et al., jt. authors, 451.
Forssman, J., 385.
Fortes, A. B. See Linhares, H., jt. author, 224.
Fortner, J., 69, 348.
Foshay, L., & Hesselbrock, W., 182.
—. See also Hesselbrock, W., jt. author, 182.
Foss, J. O., & Nelson, C. I., 258.
Foster, A. O. See Enzie, F. D., et al., jt. authors, 124.
—. See also Habermann, R. T., et al., jt. authors, 374.
Foster, J. W., & Karow, E. O., 166.
—, & Woodruff, H. B., 450.
—, —, & McDaniel, L. E., 451.
—. See also Woodruff, H. B., jt. author, 166, 450.
Fourie, J. M., 236.
Fox, J. P., See Lennette, E. H., jt. author, 222.
Fox, L. A. See Stuart-Harris, C. H., et al., jt. authors, 101.
Francis, T., 110.
Francis, T., Jr., 8, 143, 220.
—. See also Salk, J. E., et al., jt. authors, 143.
Franck, R., 58.
Franco, A., 181.
Franco, F. R., 227.
Frank, A. H., Schott, R. G., & Simmons, V. L., 116.
Frank, E. R. See Kimball, A., jt. author, 66.
Franke, F. E., 398.
—, & Richert, D., 398.
Franklin, A. V., 327.
Franklin, M. C., 441.
—, & Macgregor, C. H., 195.
—, & Reid, R. L., 200.
Franks, M. B., & Stoll, N. R., 209.
Fraps, G. S. See Ellis, N. R., et al., jt. authors, 313.
Fraps, R. M., 80.
Frauchiger, E., 288.
Freed, S. C., Kruger, H. E., & Prinzmetal, M., 376.
Freeman, W. A. See Wien, R., et al., jt. authors, 202.
Frei, W., 56.
Freitas & Hipólito, 61.
de Freitas, G. See Muniz, J., jt. author, 217.
French, M. H. See Wilde, J. K. H., jt. author, 217.
Freund, J., & Bonanto, M. V., 395.
Fricke, E. F., 20.
Fried, I. A. See Fleischmann, W., jt. author, 446.
Friedberg, L., 314.
Friedemann, U., Hollander, A., & Bornstein, S., 44.
Friedewald, W. F. See Hirst, G. K., et al., jt. authors, 143.
Friedheim, E. A. H., 245.
Friedmann, I., 87.
Friedwald, W. F., & Kidd, J. G., 309.
Fritz, J. C., 79.
Fritz, W. E., 9.

Fritzsche, K., 281.
Frobisher, M., Jr. See Parsons, E. I., et al., jt. authors, 295.
Froehner, R., 33.
Frommeyer, W. B. See Spies, T. D., et al., jt. authors, 362.
Fuest, 267.
Führman, F. A., 408.
Fuller, A. T. See Evans, D. G., et al., jt. authors, 121.
Fuller, J. R. See Traub, E. F., et al., jt. authors, 170.
Fulton, A. A., 161.
Fulton, F., & Joyner, L., 150.
—. See also Stuart-Harris, C. H., et al., jt. authors, 101.
Fulton, J. D., 245.
—, & Goodwin, T. W., 26.
di Fulvio, A., 19.
Furtado, A. R., 242.
Furtado, A. Da R., 451.
Furth, J., 398.

G

Gaalaas, R. F., 79.
Gaase, A., 228.
Gabel, W., 407
Gaby, W. L., 340.
—. See also Hays, E. E., et al., jt. authors, 451.
Gaehtgens, W., 227.
Gagarin, V. G. See Petrov, A. M., et al., jt. authors, 17.
Gaibov, A. D. See Petrov, A. M., et al., jt. authors, 17.
Gaillard, P. J. See Veer, W. L. G., jt. author, 22.
Gajewski, J. E., & Tatum, A. L., 6.
Gall, L. S. See Supplee, G. C., et al., jt. authors, 110, *bis*.
Gallardo, E., 247.
Gallardo, F. P. See Clavero, G., jt. author, 72.
Gallia, F., 245.
—. See also Kubes, V., jt. author, 429.
Gallie, J. G. E., & Paterson, J. D., 25.
Gallina, L., 55.
Gallup, W. D., & Kuhlman, A. H., 112.
Galmart, J. See Geurden, L., et al., jt. authors, 215.
Gamaleya, N. F., 145.
Gangstad, E. O. See Sullivan, W. R., et al., jt. authors, 368.
Gangulee, H. C., & Gangulee, P. C., 417.
Gangulee, P. C. See Gangulee, H. C., jt. author, 417
Gansimayer, R, & Tunkl, B., 58.
de Gara, P. F., 131.
Gard, S., 189.
Gardner, A. D., & Seddon, H. J., 414.
Garlick, G. G., Bartlett, D. E., & Hammond, D. M., 5.
—. See also Bartlett, D. E., et al., jt. authors, 5.
Garnier, G., 246.
Garrison, E. R., 326.
Gassner, F. X., 14.
Gastinel, P., 151.
Gates, F. C., 278.
Gathy, J. See Applemans, M., jt. author, 312.
Gaunt, R., Cordsen, M., & Liling, M., 116.
Gavronsky, J. O., 57.
Gear, J., Yeo, R. M., & Mundel, B., 349.
Gear, J. H. S., Mundel, B., & Wilson, D., 349.
Gebauer, 439.
Gehling, E., 290.
Geiger, W. B. See Jones, D., et al., jt. authors, 123.
Geiling, E. M. K. See Chen, G., jt. author, 281.
—. See also Chen, G., et al., jt. authors, 453.
Geissler, O., 63.
Geldmacher, W., 269.
Gelormini, N. See Rosenbusch, F., jt. author, 289.
Genest, P., & Nadeau, J. D., 1.
Gentzkow, C. J. See Simmons, J. S., jt. author, 420.
Gerasimova, A. A. See Solovel, M. Y., jt. author, 237.
Gerber, I. E., & Gross, M., 95.
Gerber, V. See Kleinberg, J., et al., jt. authors, 324.
German, V. A., 235.
Gershon-Cohen, J. See Wheeler, S. M., et al., jt. authors, 127.
Getting, V. A., Rubenstein, A. D., & Folley, G. E., 31.
Geurden, L., Thoonen, J., & Galmart, J., 215.
Geyer, B. R. See Evenson, A., et al., jt. authors, 426.
Ghauri, K. A., 9.
Ghosh, S. M. See Roy, D. N., jt. author, 28.
Giacomino, N. J. See McChesney, E. W., jt. author, 160.
Gibbard, J. See Campbell, A. G., jt. author, 84.
Gibbons, N. E., & Moore, R. L., 64.
Gibson, T. E., 374.
Giefel, M. See Huddleson, I. F., et al., jt. authors, 241.
Gilbert, C. See Gillman, J., et al., jt. authors, 19.
Gilchrist, B. M. See Bishop, A., jt. author, 345.
Gildea, E. F., & Man, E. B., 79.
Gilder, H. See Hoagland, C. L., et al., jt. authors, 109.
Gililland, J. R., & Vaughn, R. H., 40.
Gillard, A., 155.
Gillespie, E. H., 457.
Gilliver, K. See Florey, H. W., et al., jt. authors, 242.
Gillman, J., Gillman, T., Mandelstam, J., & Gilbert, C., 19.
Gillman, T. See Gillman, J., et al., jt. authors, 19.
Gilman, A., & Philips, F. S., 375.
—. See also Philips, F. S., jt. author, 449.
—. See also Philips, F. S., et al., jt. authors, 449.
Giltner, L. T. See Shahan, M. S., jt. author, 299.
Giltner, W., 93, *bis*, 94, 462.
—, & Hutton, J. P., 93.
Gilyard, R. T., 141, 188.
Giudin, A. P., 144, 188.
Ginn, J. T., & Volker, J. F., 359.
Ginsberg, A., 377.
Ginsburg, J. M., 29.
Giovine, et al., 61.
—. See also Ipólito, jt. author, 61.
Giroud, A., Martinet, M., & Bellon, M. T., 52.
Giroud, P., 350.
Gizatullin, K. G., 311.
Glässer, 127, 216.
Glazener, E. W., & Jull, M. A., 446.
Gledhill, A. W., 428.
Glembotskiĭ, Y. L., Shergin, N. P., & Nesmeyanova, T. N., 317.
Glock, G. E., Thorp, R. H., Ungar, J., & Wien, R., 241.
Glover, J. S., 91.
Glover, R. C., 439.
Glover, R. E., 37.
—. See also Andrewes, C. H., jt. author, 430.
Glynn, L. E., Himsworth, H. P., & Neuberger, A., 312.
Göbel, F., 439.
Goetchius, G. R., & Lawrence, C. A., 119, 167, 320.
—. See also Lawrence, C. A., jt. author, 451.
Götze, R., 366.
van Goidsenhoven, C. See Rodhain, J., et al., jt. authors, 217.
Goldacre, R. J. See Albert, A., et al., jt. authors, 120.
Goldsby, A. I. See Eveleth, D. F., jt. author, 17.
Goldschlag, F., 59.
Golem, S. B., 294, 304.
Goltz, H. L. See Reinhard, M. C., et al., jt. authors, 355.
Golubev, I. E., 40.
Gomori, G., 401, 406.
Gonce, J. E., Jr. See Elvehjem, C. A., et al., jt. authors, 235.
Goodline, M. A. See Parfentjev, I. A., jt. author, 352.
Goodman, J. I. See Wolkin, J., et al., jt. authors, 76.
Goodwin, D. See Moldavsky, L. F., et al., jt. authors, 409.
Goodwin, L. G., 122.
Goodwin, T. W. See Fulton, J. D., jt. author, 26.
Gopalakrishnan, V. R., 199.
Gordon, F. B., 149.
Gordon, M., & Zinnemann, K., 121.
Gordon, R. F., & Blaxland, J. D., 18.
—, & Buxton, A., 257, 377.
—. See also Blaxland, J. D., jt. author, 367.
Gorrie, C. J. R., 40.
Goss, H., 76.
Goth, A., 280.
—. See also Bush, M. T., et al., jt. authors, 202.
—. See also Sulkin, S. E., jt. author, 322.
Gottsacker, E., 376.
Gottschalk, R. G., 438.
Gottschall, R. Y., Laurent, D., de Kruif, P., Simpson, W. M., Kendell, H. W., & Rose, D. L., 266.
Gould, G. N., 37, 79.
Gould, S. E., 31, 178, 436.
Gounelle, H., Vallette, A., & Raoul, Y., 361.
Gowen, J. W., 217.
Grabar, P. See Staub, A. M., jt. author, 421.
Grace, E. J., & Bryson, V., 242.
Graessle, O. E. See Molitor, H., et al., jt. authors, 372.
—. See also Robinson, H. J., et al., jt. authors, 372.
Graf, H., 452.
—. See also Groenewald, J. W., et al., jt. authors, 363, *bis*.
—. See also Overman, R. S., et al., jt. authors, 368.
Graham, R. See Kerlin, D. L., jt. author, 220.
Grandstaff, J. O., & Blunn, C. T., 52.
Granger, W., 380.
Grau, C. R., 441.
Grau, H., 81.
Graves, A. P., 81.
Graves, F. W., 421.
Gray, D. F., 96.
Graydon, J. J., & Biggs, C. L., 207.
—. See also Christie, R., et al., jt. authors, 179.
Green, D. D., 284.
Green, D. F., 201.
Green, H. N. See Bielschowsky, F., jt. author, 355.
—. See also Stoner, H. B., jt. author, 108.
Green, M. N. See Sevag, M. G., jt. author, 119.
Green, R. G., 223, *bis*.
—, & Carlson, W. E., 100.
—. See also Bittner, J. J., et al., jt. authors, 193.
—. See also Stavitsky, A. B., jt. author, 261.
Green, W. W., & Winters, L. M., 80, 277.
Greenberg, D. M. See Copp, D. H., jt. author, 112.
—. See also Kaplan, N. O., jt. author, 115.
Greene, M. R., 392.
Greene, R., 246.
Greenstein, J. P., 79.
Gregory, P. H., 390.
Gregory, P. W. See Mead, S. W., et al., jt. authors, 76.
Gregson, J. D., & Holland, G. P., 306.
Greiff, D., & Pinkerton, H., 101.
Greig, A. S. See Baker, J. A., jt. author, 262.
—. See also Baker, J. A., et al., jt. authors, 262.
Griffin, A. E., & Chamberlin, N. S., 171.
Griffiths, H. J. See Maurer, F. D., et al., jt. authors, 262.
—. See also Shope, R. E., jt. author, 262.
—. See also Shope, R. E., et al., jt. authors, 261.
—. See also Walker, R. V. L., et al., jt. authors, 261.

Grocott, R. G. See Kean, B. H., jt. author, 8.
Groenwald, J. W., Graf, H., Bekker, P. M., Malan, J. R., & Clark, R., 363.
—, —, & Clark, R., 363.
—. See also Clark, R., et al., jt. authors, 363.
de Grolier, A. See Boquet, A., jt. author, 87.
Groody, M. See Morgan, A. F., jt. author, 169.
de Groot, T., 401.
Gross, M. See Gerber, I. E., jt. author, 95.
Gross, W. O., 11, *ter*, 265.
Grossman, J. D., 211.
Grossowicz, N. See Kligler, I. J., et al., jt. authors, 343.
Groth, A. H. See Seath, C. M., et al., jt. authors, 159.
Groulade, 245.
Grubb, T. C., & Edwards, M. A., 343.
Gudin, M., & Neiva, A., Filho, 243.
Güldenhaupt, G., & Weiler, H., 364.
Guerrant, N. B. See Vavich, M. G., et al., jt. authors, 362.
Guggenheim, K., 40.
Guida, V. D. See Rodrigues, C., jt. author, 328.
Guilhon, J., & Bouillaud, M., 353.
—, & Forestier, E., 307.
—, & Priouzeau, M., 29.
Guillaumie, M., Kreguer, A., & Fabre, M., 72.
Guillot, G. See Dechambre, E., et al., jt. authors, 97.
Guimarães, L. M. See Ribeiro, F., jt. author, 125.
Guiteras, A. F. See Flett, L. H., et al., jt. authors, 343.
Gundel, M. See Robinson, H. J., et al., jt. authors, 372.
Gunderson, N. O., & Anderson, C. W., 254, 421.
Gunn, C. K., 116, 125.
Gunn, F. D., Mills, M. A., Shepard, C. C., & Barth, E. E., 387.
—, Sheehy, J. J., Colwell, C. A., & Mills, M. A., 422.
—. See also Drill, V. A., jt. author, 54.
Gunn, R. M. C., 36.
Gupte, D. J. See Singh, B., jt. author, 49.
Gur'eva, A. M. See Priselkov, A. M., jt. author, 73.
Gurley, H. See Hepfer, O. E., et al., jt. authors, 76.
Guthrie, E. S. See Krukovsky, V. N., jt. author, 84.
Guthrie, J. E., & Harwood, P. D., 206.
Guttman, L. See McIntosh, J., et al., jt. authors, 59.
Gwatkin, R., 358, 424.
—, & Bond, E. W., 424.
—, & Mitchell, C. A., jt. author, 65.
—, & Moynihan, I. W., 4.
—, Painter, R. H., & Moynihan, I. W., 214.
—. See also Mitchell, C. A., jt. author, 40.
Gyarmati, E., 364.
Győző, N., 445.
Gysin, O. See Armand-Delille, P. F., jt. author, 95.

H

Haag, J. R. See Muth, O. H., jt. author, 51.
Haas, V. H., & Ewing, F. M., 138.
—, Feldman, H. A., & Ewing, F. M., 128.
Haase, W., 455.
Habermann, R. T., 323.
—, Enzie, F. D., & Foster, A. O., 374.
—. See also Enzie, F. D., et al., jt. authors, 124.
Hac, L. R., 27, *bis*.
—, & Hubert, A. C., 26.
Haddow, A., & Sexton, W. A., 413.
—. See also Paterson, E., et al., jt. authors, 376.
Haddow, J. R., 89.
Hagan, W. A., 382, *bis*.
Hage, T. J., 259.
Hagelin, 357.
Hail, G. See Krupski, A., et al., jt. authors, 77.
Haist, R. E. See Hamilton, J. I., jt. author, 109.
—. See also Irish, U., et al., jt. authors, 109.
Halbert, S. P., Smolens, J., & Mudd, S., 191.
—. See also Ehrich, W. E., et al., jt. authors, 304.
Halbrecht, I., 162.
Hale, J. H., & Smith, W., 427.
Hale, M. W., & Walker, R. V. L., 262.
—, —, Maurer, F. D., Baker, J. A., & Jenkins, D. L., 262.
—. See also Robey, T. O., jt. author, 262.
Hale, W. M., & McKee, A. P., 143.
Hall, V. E. See Luck, J. M., jt. author, 21.
Hallberg, V., 218.
Hallinan, F. J., 254.
Hallman, E. T., 93, 94, 462.
Halperin, J. P. See Paff, G. H., et al., jt. authors, 455.
Halpern, R. M. See Armstrong, C. D., et al., jt. authors, 319.
Hamann, C. B., 228.
Hamburger, M., Puck, T. T., & Robertson, O. H., 324.
—. See also Puck, T. T., et al., jt. authors, 324.
Hamilton, A. J. C., & Kirkpatrick, H. J. R., 122.
Hamilton, C. R. See Sandground, J. H., jt. author, 169.
Hamilton, J. I., & Haist, R. E., 109.
—. See also Irish, U., et al., jt. authors, 109.
Hamilton, J. W., 270.
—. See also Walker, J. M., jt. author, 204.
Hamilton, W. J., & Day, F. T., 163.
Hammon, W. McD., & Reeves, W. C., 299.
—, —, & Irons, J. V., 188.
—, —, & Izumi, E. M., 347.
Hammond, D. M., & Bartlett, D. E., 138, 218.
—. See also Bartlett, D. E., et al., jt. authors, 5.
—. See also Garlick, G. G., et al., jt. authors, 5.
Hammond, J. 391.
Hammond, J., Jr., 54.
—. See also Day, F. T., jt. author, 366.
Hammond, J. C. See Bird, H. R., et al., jt. authors, 313.
Hampton, J. W. F. See Wien, R., jt. author, 202.
Hamre, D. M. See Rake, G., et al., jt. authors, 394.
Handler, P., 79.
Handley, W. R. C. See Jones, R. E., jt. author, 87.
Hanford, V. L. See Eaton, M. D., jt. author, 454.
Hanselman, R. See Fell, E. H., jt. author, 376.
Hansen, O. G., 255.
Hansens, E. J., 28.
Hansmann, G. H., & Perry, M. C., 56.
Harbour, H. E., & Jamieson, S., 430.
Harden, F., 176.
Hardy, A. V., 204.
Haring, R. C. See Flett, L. H., et al., jt. authors, 343.
Harington, C. R., 239.
Harmon, K. S. See Featherly, H. I., jt. author, 83.
Harper, W. F. See Barcroft, J., et al., jt. authors, 24
Harms, 278.
Harms, A. J., 352.
Harms, F., 102.
Harne, O. G., Lutz, J. F., Zimmerman, G. I., & Davis, C. L., 53.
Harris, C. C. See Stott, W., jt. author, 112.
Harris, D. M. See Jordan, C. F., et al., jt. authors, 389.
Harris, L. E. See Basset, C. F., et al., jt. authors, 360, 442.
Harris, T. N. See Ehrich, W. E., et al., jt. authors, 433.
Harrison, J. See Wien, R., et al., jt. authors, 202.
Hart, E. B. See Teresi, J. D., et al., jt. authors, 159.
Hart, G. H. See Cole, H. H., et al., jt. authors, 164.
Harth, F., 85.
Hartley, P., 279.
Hartroft, W. S., 357.
Hartsough, G. R., 95.
Hartz, H. See van der Sar, A., jt. author, 153.
Harvey, C., & Jackson, M. H., 24.
Harvey, E. N., Barnes, D. K., McElroy, W. D., Whiteley, A. H., Pease, D. C., & Cooper, K. W., 161.
—, McElroy, W. D., Whiteley, A. H., Warren, G. H., & Pease, D. C., 161.
—, Whiteley, A. H., McElroy, W. D., Pease, D. C., & Barnes, D. K., 161.
—. See also McElroy, W. D., et al., jt. authors, 161.
Harvey, J. M., 240.
Harvey, W. C., & Hill, H., 463.
Harwood, P. D. See Guthrie, J. E., jt. author, 206.
Haseeb, M. A. See Horgan, E. S., jt. author, 141.
Haskell, T. H. See Cavallito, C. J., et al., jt. authors, 409.
Haskins, W. T. See Lawton, A. H., et al., jt. authors, 375.
Hasselbrock, W. B. See Moldavsky, L. F., et al., jt. authors, 409.
Hasselmann, H., 43.
Hastings, E. G., 23.
Hatch, R. D., 244.
Hatfield, J. D. See Shrewsbury, C. L., et al., jt. authors, 278.
Hauser, E. D. W., & Cutter, W. W., 207.
Havens, W. P., Jr., 302.
—, Paul, J. R., van Rooyen, C. E., Ward, R., Drill, V. A., & Allison, N. H., 302.
Hawking, F., 138.
Hawkins, P. A., 462.
—, & Cole, C. L., 48.
—, —, & Kline, E. E., 48.
—, & Kline, E. E., 282.
—. See also Kline, E. E., jt. author, 83.
Hawkins, P. H., 94.
Hays, E. E. Wells, I. C., Katzman, P. A., Cain, C. K., Jacobs, F. A., Thayer, S. A., Doisy, E. A., Gaby, W. L., Roberts, E. C., Muir, R. D., Carroll, C. J., Jones, L. R., & Wade, N. J., 451.
Hays, F. A., 317.
Hayward, A. H. S. See Vinattieri, E., et al., jt. authors, 75.
Hazeltine, B. M., & Ekedahl, V., 380.
Heath, L. M., 8, 221.
Heatley, N. G., 57.
Hecke, F., 392.
Hedvall, E., 292.
Hedvalle, E., 2.
Hegsted, D. M., & Rao, M. N., 404.
—, & Stare, F. J., 404.
—. See also Stare, F. J., et al., jt. authors, 79.
Hegyeli, Z., 423.
Heidelberger, M. See Bier, O. G., et al., jt. authors, 13.
Heidemann, J., 396.
Heilman, D. H., & Herrell, W. E., 173.
Heilman, F. R., & Herrell, W. E., 203.
Heinemann, B., 457.
Heiny, E., 187.
Heise, H. A., 151.
Heishman, J. O. See Mott, L. D., et al., jt. authors, 411.
Heitman, H., Jr. 271.
Helgebostad, A. See Ender, F., jt. author, 272.
Hellier, F. F., 205.
Helwig, F. C., & Schmidt, E. C. H., 150.
Hemmert-Halswick, A., 7.
Henderson, D. G. See Rifkin, H., et al., jt. authors, 223.
Henderson, L. M. See Schweigert, B. S., et al., jt. authors, 443.
Henderson, R. G. See Topping, N. H., et al., jt. authors, 394.
Henderson, W. W., 332, 378, 461.
Henderson-Begg, A. See Buckland, F. E., et al., jt. authors, 150.
Hendricks, S. B. See Hill, W. L., et al., jt. authors, 313.

Henle, G. See Henle, W., jt. author, 220.
—. See also Wiener, M., et al., jt. authors, 429.
Henle, W., & Henle, G., 220.
—, Sommer, H. E., & Stokes, J., Jr., 126.
—. See also Wiener, M., et al., jt. authors, 429.
Henley, T. F. See Forgacs, J., et al., jt. authors, 451.
—. See also Kornegay, G. B., et al., jt. authors, 451.
te Hennepe, W. L. See Thorp, W. T. S.,
Henning, W. L. See Thorp, W. T. S., et al., jt. authors, 124, 206.
Henry, J. See Sevag, M. G., et al., jt. authors, 167.
Henry, J. E. See Henry, R. J., jt. author, 328.
Henry, M., 90, 92.
Henry, R. J., & Henry, J. E., 328.
Henshaw, P. S., 355.
Hepler, O. E., Gurley, H., & Simonds, J. P., 76.
—. See also Simonds, J. P., jt. author, 76.
Herbut, P. A., & Scaricaciottoli, T. M., 200.
van Herick, W., & Eaton, M. D., 295.
—. See also Eaton, M. D., et al., jt. authors, 100, *bis*.
Herrell, W. E. See Heilman, D. H., jt. author, 173.
—. See also Heilman, F. R., jt. author, 203.
Herrick, C. A. See Ripsom, C. A., jt. author, 57.
Herrick, J. A., & Kempf, J. E., 281.
Herzberg, K., 10, 11, 350, 432.
Herzog, E., 99.
Hesselbrock, W., & Foshay, L., 182.
—. See also Foshay, L., jt. author, 182.
Heston, W. See Deringer, M. K., et al., jt. authors, 106.
Hetzel, E., 168.
Hetzel, H., & Szepeshelyi, A., 260.
Heuser, G. F. See Norris, L. C., jt. author, 79.
Hewat, A. F., 418, *ter*.
Hewer, E. E., 130.
Heys, F. M. See Smith, M. G., et al., jt. authors, 45.
Hibbs, J. W., Krauss, W. E., Monroe, C. F., & Pounden, W. D., 404.
Higgins, G. M. See Chapman, A., et al., jt. authors, 117.
Higgs, C., 415.
Highman, B., & Lillie, R. D., 285.
Hill, G. R., & Smyth, J. D., 17.
Hill, H. See Harvey, W. C., jt. author, 463.
Hill, J. L., 204.
Hill, K. R., & Robinson, G., 118.
Hill, L., 251.
Hill, W. L., Reynolds, D. S., Hendricks, S. B., & Jacob, K. D., 313.
—. See also Reynolds, D. S., et al., jt. authors, 271.
Hilleman, M. R., 46.
Himmelweit, F., 57.
Himsworth, H. P. See Glynn, L. E., et al., jt. authors, 312.
Hin, A. K. N. C., 16.
Hinderer, G. See Seelemann, M., jt. author, 294.
Hindersson, R., 342.
Hindmarsh, W. L., 441.
—, Webster, W., & Stewart, D. F., 42.
Hinshaw, H. C. See Feldman, W. H., jt. author, 410.
—. See also Feldman, W. H., et al., jt. authors, 410.
Hinshaw, W. R., & McNeil, E., 371.
—. See also McNeil, E., jt. author, 122, 257.
Hinshelwood, C. N., 66.
Hipólito, 61.
—, & Glóvine, 61.
—. See also Freitas, jt. author, 61.
Hirsch, A. See Mattick, A. T. R., jt. author, 326.
Hirsh, H. L., Feffer, H. L., & O'Neil, C. B., 451.
Hirshfeld, J. W. See Abbott, W. E., et al., jt. authors, 165.
Hirst, G. K., 429.
—, Plummer, N., & Friedewald, W. F., 143.
Hirt, G., 295.
Hoagland, C. L., Gilder, H., & Shank, R. E., 109.
Hobbs, B. C., King, G. J. G., & Allison, V. D., 31.
Hobbs, F. B., 26.
Hobby, G. L., & Dawson, M. H., 451.
Hodgson, A. E., 266.
Hodosy, J., 426.
Hoeben, J. G. H., 181.
Hoecker, S. G., 309.
Höll, A., 375.
Hofer, A. W., & Richards, O. W., 482.
Hofferber, O., 176.
Hoffman, R. S., & Dingwall, J. A., 84.
Hoffman, W. A. See Krakower, C., et al., jt. authors, 14.
Hofstad, M. S., 11.
Hogan, R. B., & Eagle, H., 241.
Hohorst, W., 226.
Holden, H. F., 79.
Holdenried, R. See Burroughs, A. L., et al., jt. authors, 96.
Hole, N. See Stuart-Harris, C. H., et al., jt. authors, 101.
Hollaender, A. See Jones, M. F., jt. author, 105.
—. See also Oliphant, J. W., jt. author, 350.
—. See also Wheeler, S. M., et al., jt. authors, 127.
Holland, G. P. See Gregson, J. D., jt. author, 306.
Hollander, A. See Friedemann, U., et al., jt. authors, 44.
Hollander, W. F., & Riddle, O., 441.
Hollender, A. J. See Parker, R. C., jt. author, 428.
Holler, G., 182.
Hollström, E., 63.
Holm, G. C., 83.
Holm, J. See Madsen, T., et al., jt. authors, 256.
Holman, H. H., 113, 195.
—, & McDiarmid, A., 183.
Holman, R. L., 20.
Holmes, A. D. See Satterfield, G. H., et al., jt. authors, 234.
Holstein, G. See Richou, R., jt. author, 203, 253, 352.
Holtman, D. F., 4.
Holton, W. H., 457.
Homan, D., 378.
Honess, R. F., 169.
van Hoof, L. See Rodhain, J., et al., jt. authors, 217.
Hoogerheide, J. C., 30.
Hooker, S. B., 305.
—. See also Abramson, H. A., et al., jt. authors, 434.
Hoover, M. J. See Evans, E. I., et al., jt. authors, 284.
Hopkins, F. G., & Leader, V. R., 362.
Hopkirk, C. S. M. See Cunningham, I. J., jt. author, 278.
Hopper, H. D., 308.
Horecker, B. L., 460.
Horgan, E. S., & Haseeb, M. A., 141.
Hornby, H. E., 245.
Hornyacsek, 144.
Horsfall, F. L., Jr., & Curnen, E. C., 301, 349.
Horstmann, D. M. See Melnick, J. L., et al., jt. authors, 149.
Horton Smith, C., 345.
—, & Boyland, E., 410, 411.
—. See also Asplin, F. D., et al., jt. authors, 410.
Horwood, R. E. See Bryan, C. S., et al., jt. authors, 82.
—. See also Trout, G. M., jt. author, 457.
Hotchkiss, N. See Lakin, H. W., et al., jt. authors, 342.
Houston, J. See Basket, R. G., et al., jt. authors, 440.
Hove, E. See Teresi, J. D., et al., jt. authors, 159.
Howe, H. A., & Mellors, R. C., 115.
Howell, A. B., 94.
Howell, C. E. See Britton, J. W., jt. author, 157.
Howell, D. E. See Smith, H. C., jt. author, 43, 169.
Hoyle, L., 143.
—, & Orr, J. W., 270.
Hubbard, C. L. B., 94.
Huber, F., 63.
Hubert, A. C. See Hac, L. R., jt. author, 26.
Hubmair, 144.
Hucker, G. J. See Brooks, R. F., jt. author, 182.
—. See also Metcalf, D., et al., jt. authors, 444.
Huddleson, I. F., 93, 94, 215, 462.
—, DuFrain, J., Barrons, K. C., & Giefel, M., 241.
—, Wood, E. E., Cressman, A. R., & Bennett, G. R., 340.
Huebner, C. F. See Overman, R. S., et al., jt. authors, 368.
Hueper, W. C., 53, 198, 233, 311, 356.
Huesby, R. A. See Bittner, J. J., et al., jt. authors, 230.
Huffman, C. F. See Bryan, C. S., et al., jt. authors, 82.
—. See also Reid, J. T., et al., jt. authors, 108, 314.
Huggins, C., 24.
Hughes, C. O. See Brackett, S., jt. author, 99.
Hughes, D. E. See McIlwain, H., jt. author, 318.
Hughes, J. S. See Caldwell, M. J., jt. author, 54.
Hughes, W. H., 266.
Huhtala, E., 37.
Humphreys, S. See Cartwright, G. E., et al., jt. authors, 443, 444.
Hungate, R. E., 365, *bis*.
Hunter, D., Perry, K. M. A., & Evans, R. B., 240.
Hunter, F. See Ebright, R. E., et al., jt. authors, 174.
Hunter, G. W., III. See Warren, V. G., et al., jt. authors, 354.
Hurst, E. W., & Cooke, B. T., 75.
—, —, & Melvin, P., 188.
Hurst, V. See Puck, T. T., et al., jt. authors, 324.
Huseby, R. A. See Bittner, J. J., jt. author, 437.
Hutson, L. R., 43, 346.
Hutt, F. B., Cole, R. K., & Bruckner, J. H., 194.
Hutton, J. P., 94, 462.
—. See also Giltner, W., jt. author, 93.

I

Ikawa, M. See Overman, R. S., et al., jt. authors, 368.
Il'in, A. S., 46.
Imbasciati, B., 310.
Imšenecki, A., 184.
Ingraham, H. S. See Wheeler, S. M., et al., jt. authors, 127.
Inui, F. See Poth, E. J., et al., jt. authors, 371.
Irish, O. J. See Webb, H. B., et al., jt. authors, 32.
Irish, U., Hamilton, J. I., Haist, R. E., & Jaques, L. B., 109.
Irons, E. N. See Kohls, G. M., et al., jt. authors, 70.
Irons, J. V. See Hammon, W. McD., et al., jt. authors, 188.
Irving, J. T., 443.
Irwin, M. R. See Owen, R. D., et al., jt. authors, 55.
Isaacs, A. See Barclay, T. H. C., et al., jt. authors, 455.
Ishukov, G. K., 45.
Iszard, P. E. R., 400.
Ito, S., Yamashita, J., & Niwa, M., 67.
Ivanovskii, V., 86.
Ivanovskii, V. A., 208.
Izumi, E. M. See Hammon, W. McD., et al., jt. authors, 347.

J

Jacini, G., 72.
Jack, J. A., 128.
Jackson, A. V. See de Burgh, P., et al., jt. authors, 189.

Jackson, C. H. N., & Vanderplank, F. L., 114.
Jackson, E. L. See Smith, M. I., et al., jt. authors, 452.
Jackson, M. H. See Harvey, C., jt. author, 24.
Jackson, R. M. See Reid, J. D., jt. author, 284.
Jacob, E., 98.
Jacob, K. D. See Hill, W. L., et al., jt. authors, 313.
—. See also Reynolds, D. S., et al., jt. authors, 271.
Jacobs, F. A. See Hays, E. E., et al., jt. authors, 451.
Jacobs, H. R., 43.
Jacobs, L. See Wright, W. H., et al., jt. authors, 104, *bis*.
Jacobs, S. E. See Jordan, R. C., jt. author, 414, *bis*.
Jacquet, J., 19.
—, & Quarante, M., 83.
Jaeger, E. C., 288.
James, G. W. See Evans, E. I., et al., jt. authors, 284.
James, L. H. See Nolte, W. A., jt. author, 126.
Jamieson, S. See Harbour, H. E., jt. author, 430.
Jann, G. J. See Salle, A. J., jt. author, 450.
Jansen, J., 265, 340, 424.
Jaques, L. B. See Irish, U., et al., jt. authors, 109.
Jaquette, D. S., Kleckner, A. L., & Klein, L. A., 167.
Jarcho, S., 231.
Jarrett, I. G. See Watson, R. H., jt. author, 330, 365.
Jellison, W. L., & Parker, R. R., 423.
von Jeney, A., & von Korpássy, B., 355.
Jenkins, D. L., & Shope, R. E., 262.
—, & Walker, R. V. L., 262.
—. See also Baker, J. A., et al., jt. authors, 261.
—. See also Hale, M. W., et al., jt. authors, 262.
—. See also Maurer, F. D., et al., jt. authors, 262.
—. See also Shope, R. E., et al., jt. authors, 261.
—. See also Walker, R. V. L., et al., authors, 261.
Jennings, B. H., Bigg, E., & Olson, F. C. W., 126.
—. See also Bigg, E., jt. author, 416.
—. See also Bigg, E., et al., jt. authors, 126.
Jennings, J. R. See Jordan, C. F., et al., jt. authors, 389.
Jennings, M. A. See Florey, H. W., et al., jt. authors, 242, 409.
Jensen, H., 4.
Jensen, K. A., & Kioer, I., 280.
—. See also Madsen, T., et al., jt. authors, 255.
Jensen, L. B., 30.
Jéramec, C. See Legroux, R., et al., jt. authors, 281.
Jern, H. Z., & Meleney, F. L., 201.
Joachim, A. W. R., & Panditteseke re, D. G., 117.
Johannsen, A., 200.
John, K. T. See Orr, W., jt. author, 393.
Johnson, B. A., Anker, H., & Meleney, F. L., 242.
Johnson, E. P., 107, 392.
Johnson, H. W., 12, *bis*.
—. See also Kummer, F. A., jt. author, 12.
Johnson, M. L. See Abercrombie, M., jt. author, 330.
Johnson, R. B., 4.
Johnson, S. D., 168.
Johnstone, I. L., 330.
Jonas, K., 247.
Jones, D., Beaudette, F. R., Geiger, W. B., & Waksman, S. A., 123.
Jones, E. R. See Bell, F. R., jt. author, 198.
—. See also Fiennes, R. N. T. W., et al., jt. authors, 344.
Jones, H. A. See Bushland, R. C., et al., jt. authors, 28.
Jones, H. B. See Sheline, G. E., et al., jt. authors, 22.
Jones, H. E. See Jordan, J., jt. author, 71.
Jones, J. M. See Black, W. H., et al., jt. authors, 270.
Jones, L. R. See Hays, E. E., et al., jt. authors, 451.
Jones, M. F., & Hollaender, A., 105.
Jones, R. E., & Handley, W. R. C., 87.
Jones, T. C., Roby, T. O., Davis, C. L., & Maurer, F. D., 44.
—. See also Schnelle, G. B., jt. author, 308.
—. See also Schnelle, G. B., et al., jt. authors, 436.
Jones, T. R., 441.
Jones, T. V., 332.
Jordan, C. F., 389.
—, Borts, I. H., Harris, D. M., & Jennings, J. R., 389.
Jordan, J., & Jones, H. E., 71.
Jordan, R. C., & Jacobs, S. E., 414, *bis*.
Jørgensen, K. L., 183.
—. See also Seit, B., jt. author, 183.
Jorpes, E., & Thaning, T., 191.
Joshua, J. O., 400.
Joyce, C. R. See Eddy, G. W., jt. author, 307.
Joyner, L. See Fulton, F., jt. author, 150.
Jull, M. A. See Glazener, E. W., jt. author, 446.
Jung, A. See Krupski, A., et al., jt. authors, 77.
Jung, B., 208.
Jungeblut, C. W., & Dalldorf, G., 302.
Junowicz-Kocholaty, R. See Morton, H. E., et al., jt. authors, 372.
Jupe, J. H., 178.

K

Kahn, O. B. See Bell, J. F., jt. author, 281.
Kahnert, 74.
Kaisarov, A. See Fomina, A., et al., jt. authors, 131.
Kaiser, M., 141.
Kaiser, M. E. See Loew, E. R., jt. author, 455.
Kakavas, J. C., 120.
—. See also Palmer, C. C., et al., jt. authors, 339.
Kalckar, H. M., 79.
Kallós, P., & Kallós-Deffner, L., 308.
Kallós-Deffner, L. See Kallós, P., jt. author, 308.
Kalnitsky, G., Utter, M. F., & Werkman, C. H., 173.
Kalter, S. S. See Klein, M., jt. author, 409.
Kamen, M. D. See Reinhard, E. H., et al., jt. authors, 412.
Kaparalov, A. A., 82.
Kaplan, D., 250.
Kaplan, I. W. See Culp, O. S., et al., jt. authors, 58.
Kaplan, M. M., & Lager, A. E., 63.
Kaplan, N. O., & Greenberg, D. M., 115.
Kaplun, T. See Yermolieva, Z., et al., jt. authors, 279.
Kapur, H. R., 18.
Kardos, G., 416.
Karow, E. O. See Foster, J. W., jt. author, 166.
Karpov, S. P., & Popov, V. M., 292.
Kashdan, F. See Alture-Werber, E., et al., jt. authors, 340.
Katzman, P. A. See Hays, E. E., et al., jt. authors, 451.
Kauffmann, F., 384, 388.
Kaufmann, O. W., & Shaw, J. C., 158.
Kauker, E., 309.
Kay, H. D., 248, 275.
Kazanskii, I. I., 33, 66.
Kean, B. H., & Grocott, R. G., 8.
Kearney, W., & Adams, C. B., 194.
Kedrov, V. K., 316.
Keevil, R. F. See Adamson, J. D., et al., jt. authors, 181.
Kehar, N. D., 196.
—, Mukherjee, R., Murty, V. V. S., & Sen, K. C., 197.
—, —, & Sen, K. C., 197.
—, & Rau, K. G., 240.
Keller, H., 85.
Kelley, R. B., 90, *bis*.
Kelley, W. E. See Wolkin, J., et al., jt. authors, 76.
Kellogg, W. L. See Bird, H. R., et al., jt. authors, 313.
Kelly, R. G. See Woodruff, C. E., et al., jt. authors, 337.
Kelly, T. A. See Nutini, L. G., Sr., et al., jt. authors, 427.
Kelner, A. See Morton, H. E., et al., jt. authors, 372.
Kempf, J. E. See Herrick, J. A., jt. author, 281.
Kendell, H. W. See Gottschall, R. Y., et al., jt. authors, 266.
Kennard, D. C., & Chamberlin, V. D., 360.
Kennedy, C., & Palmer, L. S., 443.
Kerby, G. P. See Margolis, G., et al., jt. authors, 135.
Kerlin, D. L., & Graham, R., 220.
Kernkamp, H. C. H. See Boyd, W. L., et al., jt. authors, 389.
Kerr, A. B., & Werner, H., 247.
Kerr, K. B., 15.
—. See also Wright, W. H., et al., jt. authors, 104.
Kerr, W. R., & Robertson, M., 137.
—. See also Lamont, H. G., et al., jt. authors, 387.
Kessel, J. F., Moore, F. J., & Pait, C. F., 302.
Kessler, W. R., & Zwemer, R. L., 5.
Ketterer, M. See Dold, H., jt. author, 96.
Keyes, E. A., 235.
Khabas, I. M., & Panin, F. T., 266.
Khanenya, F. S., 322.
Khuen, E. C., 189.
Kiang, L. M. See Kuo, S. C., jt. author, 352.
Kidd, J. G. See Friedwald, W. F., jt. author, 309.
Killham, B. J., 93, 94, 462.
Kimball, A., & Frank, E. R., 66.
King, G. J. G. See Hobbs, B. C., et al., jt. authors, 31.
Kingsbury, B. F., 75.
Kinsman, J. M. See Kirby, W. M. M., et al., jt. authors, 319.
Kioer, I. See Jensen, K. A., jt. author, 280.
Kirby, W. M. M., Martin, S. P., Leifer, W., & Kinsman, J. M., 319.
Kirchner, F. K. See Cavallito, C. J., et al., jt. authors, 243.
Kirk, R. J., & Collins, H. C., 149.
Kirkpatrick, A. C., 211.
Kirkpatrick, H. J. R. See Hamilton, A. J. C., jt. author, 122.
Kiseley, F. D., 155.
Kiur-Muratov, A. P., 148, *bis*, 149, *bis*.
—, Fomina, A. Y., & Kruglov, A., 131.
Kjos-Hanssen, J., 314, 362.
Klarenbeek, A. See Beuvery-Asman, A., et al., jt. authors, 452.
Klauder, J. V., 256.
Klebanov, M. A., 291.
Kleberg, R. J., Jr. See Black, W. H., et al., jt. authors, 270.
Kleckner, A. L. See Graige, A. H., Jr., jt. author, 454.
—. See also Jaquette, D. S., et al., jt. authors, 167.
Kleeberg, J., 151.
Kleiber, M. See Cole, H. H., jt. author, 155.
Klein, L. A., Crisman, D. W., & Moor, J. W., 120.
—. See also Jaquette, D. S., et al., jt. authors, 167.
Klein, M., 113.
—, & Kalter, S. S., 409.
Kleinberg, J., Novak, M., & Gerber, V., 324.
Kleine, F. K., 185, 390.
Klevar, 357.
Klieneberger-Nobel, E., 185.
Kligler, I. J., Grossowicz, N., & Bergner, S., 343.
Klimek, J. W. See Cavallito, C. J., et al., jt. authors, 243.
Klimov, N. M., 54.
Klinck, G. H. See McChesney, E. W., et al., jt. authors, 169.

Kline, B. S. See Suessenguth, H., jt. author, 128.
Kline, E. E., & Hawkins, P. A., 83.
—. See also Hawkins, P. A., jt. author, 282.
—. See also Hawkins, P. A., et al., jt. authors, 48.
Kloeck, J. M. See Sher, B. C., jt. author, 370.
—. See also Sweany, H. C., et al., jt. authors, 370.
Knaysi, G., 128, 180, 343.
Knight, C. A., 299, 429.
Knipling, E. F. See Bushland, R. C., et al., jt. authors, 28.
Knodt, C. B., & Petersen, W. E., 235.
Knöbel, P., 166.
Knott, F. L. See Poth, E. J., et al., jt. authors, 371.
Knox, R., 60.
Kobyzev, 78.
Koch, F. E. See Madaus, G., jt. author, 83.
Kochergin, I. G. See Babsky, E. B., et al., jt. authors, 464.
Kocholaty, W. See Morton, H. E., et al., jt. authors, 372.
de Kock, G., 353.
Köhn, F., 243.
Koen, J. S., & Smith, H. C., 117.
Koger, M., 164.
Kohls, G. M., Armbrust, C. A., Irons, E. N., & Philip, C. B., 70.
—. See also Blake, F. G., et al., jt. authors, 70.
Kokin, G. A. See Zhuravlev, P. M., et al., jt. authors, 265.
Kokurichev, P. I., 255.
Kolesnikov, C. A., 421.
Kolesov, S. G., 180.
Kollros, J. J. See Tobias, J. M., et al., jt. authors, 449.
Komkova, O. A., 258.
Konst, H., 121.
—. See also Byrne, J. L., et al., jt. authors, 370.
Konstantinova, V. I. See Zelevinskaya, S. A., et al., jt. authors, 258.
Koopmansch, W., 304.
Koprowski, H., & Lennette, E. H., 348.
—. See also Lennette, E. H., jt. author, 47, 351, 429.
Korkman, N., 358.
Kornberg, A., Endicott, K. M., Daft, F. S., & Sebrell, W. H., 207.
—. See also Daft, F. S., et al., jt. authors, 361.
Korneev, I. P., 62.
Kornegay, G. B., Forgacs, J., Henley, T. F., Collins, L. A., Redmon, C. F., & Chambers, M. C., 451.
—. See also Forgacs, J., et al., jt. authors, 451.
Korpássy, B., 448.
—. See also von Jeney, A., jt. author, 355.
Kossmag, 108.
Kostin, A. A., 315.
Kotlán, S., 98.
Kourilsky, R., & Mercier, P., 337.
Kovalenko, Y. R., 183.
Kovalenok, A., 322.
Kozlov, P. G. See Shapiro, G. L., jt. author, 459.
Kozlova, E. S. See Semenov, M. A., jt. author, 146, *bis*.
Kozoll, D. D. See Popper, H., et al., jt. authors, 283.
Krahwinkel, R., 29.
Krakower, C., Hoffman, W. A., & Axtmayer, J. H., 14.
Kramer, B. See Sobel, A. E., et al., jt. authors, 53.
Kraneveld, F. C., & Mansjoer, M., 131.
Kranz, S., 234.
Krastin, N. I., 192.
Kratzer, F. H. See Lepkovsky, S., et al., jt. authors, 443.
Krause, A., 31.
Krauss, W. E., 363, *bis*.
—. See also Hibbs, J. W., et al., jt. authors, 404.
Kreguer, A. See Guillaumie, M., et al., jt. authors, 72.
Krehl, W. A., & Elvehjem, C. A., 112.
—, Teply, L. J., & Elvehjem, C. A., 443.
Kreke, C. W. See Nutini, L. G., et al., jt. authors, 185.
Krestin, D., 125.
Krichesky, B., & Mandel, H., 277.
Krijt, G., 443.
Krishman, T. S. See MacDonald, A. J., jt. author, 174.
Krishnaswamy, A., 211.
Kruger, H. E. See Freed, S. C., et al., jt. authors, 376.
Kruglov, A. See Fomina, A., et al., jt. authors, 131.
—. See also Kiur-Muratov, A. P., et al., jt. authors, 131.
de Kruif, P. See Gottschall, R. Y., et al., jt. authors, 266.
Krukovsky, V. N., & Guthrie, E. S., 84.
Krumbiegel, E. R., 46.
Krupski, A., Almasy, F., & Ulrich, H., 270.
—, Jung, A., Almasy, F., Hail, G., & Ulrich, H., 77.
—, Uehlinger, E., Almasy, F., & Ulrich, H., 77.
—, —, & Tschumi, H., 19.
—. See also Moszczenski, Z., jt. author, 144.
Kubes, V., 438.
—, & Gallia, F., 429.
Kubiš, L., 38.
Kudryashov, M. V., & Troitskii, I. A., 145.
Kuhlman, A. H. See Gallup, W. D., jt. author, 112.
Kuitunen-Ekbaum, E., 228.
Kukharkova, L., 59.
Kulakov, G. E., 145.
Kulka, J. P. See Zeldis, L. J., et al., jt. authors, 364.
Kumaran, J. D. S., 199.
Kummer, F. A., & Johnson, H. W., 12.
Kuna, S. See Molitor, H., et al., jt. authors, 372.
Kuo, S. C., & Kiang, L. M., 352.
Kurashova, L. A., 236.
Kurzrok, R. See Leonard, S. L., jt. author, 199.
Kyaw, M. H., 96.
Kyaw, M. L., 134.

L

Lackenbucher, G., 406.
Lägel, 392.
Laemmert, H. W., Jr., & de Castro Ferreira, L., 224.
Lager, A. E. See Kaplan, M. M., jt. author, 63.
Laing, J. A., 80.
Lakin, H. W., Quortrup, E. R., & Hotchkiss, N., 342.
Laktionova, A. I., 265.
Lallemand, S. See Ancel, P., jt. author, 346.
Lamarre, H. See Lamarre, L., jt. author, 216.
Lamarre, L., 68.
—, & Lamarre, H., 216.
Lamont, A. A., 401.
Lamont, H. G., Kerr, W. R., & Pearson, J. K. L., 387.
—. See also Common, R. H., jt. author, 361.
Lamounier, 61.
Lande, F., & Dixon, R. F., 31.
van Landingham, A. H. See Bird, H. R., et al., jt. authors, 313.
Lang, W. W., 153.
Lapage, G., 285.
Largent, E. J., Machle, W., & Ferneau, I. F., 81.
Larsen, E. G. See Field, J. B., et al., jt. authors, 368.
Larsh, J. E., Jr., 267.
Larson, C. L., 64, 87, 134.
—. See also Olson, B. J., jt. author, 349.
Larson, E. J. See Smith, S. E., jt. author, 448.
Laser, H., 228.
Lasfargues, E. See Ramon, G., et al., jt. authors, 187.
Laskin, V. E. See Belov, M. P., jt. author, 258.
Lasley, J. F. See Mayer, D. T., jt. author, 163.
László, F., 74.
Laurent, D. See Gottschall, R. Y., et al., jt. authors, 266.
Lavoipierre, M. See de Meillon, B., jt. author, 102.
Lawrence, C. A., 166, 203.
—, & Goetchius, G. R., 451.
—. See also Goetchius, G. R., jt. author, 119, 167, 320.
Lawrence, J. S., 25.
Laws, S. G. See Fiennes, R. N. T.-W., et al., jt. authors, 344.
Lawton, A. H., Brady, F. J., Ness, A. T., & Haskins, W. T., 375.
Lea, D. E., 428.
Leader, V. R. See Hopkins, F. G., jt. author, 362.
Leaming, M. A. See Woodruff, C. E., et al., jt. authors, 337.
Leckie, M. W. See Walls, L. P., et al., jt. authors, 204.
Leclainche, E., 33.
Lederman, J. M. See Cameron, A. T., et al., jt. authors, 18.
Lee, A. M. See Ryff, J. F., jt. author, 294.
Lee, D. H. K., Robinson, K. W., Yeates, N. T. M., & Scott, M. I. R., 274.
Lee, J. T. See Poth, E. J., et al., jt. authors, 371.
Lees, A. D., 435.
Lefevre. See Mouquin, jt. author, 281.
Lefèvre, G., 446.
Legendre, J. M., & Chary, R., 439.
Legg, J., 396.
Legroux, R., Jéramec, C., & Levaditi, J. C., 281.
Lehman, R. A. See Paff, G. H., et al., jt. authors, 455.
Lehr, D., 320, 330.
Leifer, W. See Kirby, W. M. M., et al., jt. authors, 319.
Leitch, I., & Thomson, J. S., 52.
Lembke, A. See Essen, K. W., jt. author, 149.
Lemétayer, E., 10.
—. See also Ramon, G., jt. author, 9.
—. See also Ramon, G., et al., jt. authors, 136, 187.
Lemon, H. M. See Loosli, C. G., et al., jt. authors, 458.
—. See also Puck, T. T., et al., jt. authors, 458.
Lennette, E. H., & Fox, J. P., 222.
—, & Koprowski, H., 47, 351, 429.
—. See also Koprowski, H., jt. author, 348.
Lennox, M. See Thomas, B. A., et al., jt. authors, 259.
Lentz, W. J., 240.
Leonard, S. L., & Kurzrok, R., 199.
Leonian, L. H., & Lilly, V. G., 259.
Leonov, N. K., 127.
Leopold, I. H., 319.
Lepkovsky, S., Bird, F. H., Kratzer, F. H., & Asmundson, V. S., 443.
Lerena, E. A., 449.
Lesbouyries, G., 288.
Leskien, I., 347, 363.
Lethem, W. A., 415.
Letonoff, T. V. See Riggs, H. E., et al., jt. authors, 56.
Lev, M., & Saphir, O., 277.
Levaiti, J. C. See Legroux, R., et al., jt. authors, 281.
Levin, O. L., & Behrman, H. T., 294.
Levine, M. See Thomas, A. R., Jr., jt. author, 168.
Levine, M. I., & Sackett, M. F., 422.
Levine, P. P., 7.
Levinson, S. O., Milzer, A., & Lewin, P., 70.
—, —, Shaughnessy, H. J., Neal, J. L., & Oppenheimer, F., 209.
—. See also Milzer, A., et al., jt. authors, 209.
Levitov, M. See Yermolieva, Z., et al., jt. authors, 279.
Levy, B., & Black-Schaffer, B., 259.
Lewin, P. See Levinson, S. O., et al., jt. authors, 70.
Lewis, J. M., & Wilson, L. T., 313.
Lewis, R. W. See Lucas, E. H., jt. author, 409.

Lewthwaite, R. See Stuart-Harris, C. H., et al., jt. authors, 101.
Leyton, G. See Bier, O. G., et al., jt. authors, 13.
Lherisson, C. See Augustine, D. L., jt. author, 305.
Li, C. H. See Becks, H., et al., jt. authors, 116, 117.
Li, F., & Yang, F., 285.
Lichstein, H. C., & Soule, M. H., 42.
Liddell, W. C., 90.
Lidwell, O. M., 457.
van Liere, E. J., Northup, D. W., & Stickney, J. C., 317.
Lightfoot, G., 459.
Liling, M. See Gaunt, R., et al., jt. authors, 116.
Lill, N. D. See Wheeler, S. M., et al., jt. authors, 127.
Lillie, R. D., 209, 449.
—, & Smith, M. I., 118.
—. See also Highman, B., jt. author, 285.
Lilly, V. G. See Leonian, L. H., jt. author, 259.
Lind, P. E. See Beveridge, W. I. B., et al., jt. authors, 142.
Lindemann., 357.
Lindquist, A. W. See Parman, D. C., et al., jt. authors, 306.
Linhares, H., 224.
—, & Fortes, A. B., 224.
Link, K. P. See Field, J. B., et al., jt. authors, 368.
—. See also Overman, R. S., et al., jt. authors, 368.
—. See also Sullivan, W. R., et al., jt. authors, 368.
Lions, F., 202.
Lipschitz, R. See Alture-Werber, E., et al., jt. authors, 340.
Lissot, G., 24.
Litter, M., 413.
Live, I., Sperling, F. G., & Stubbs, E. L., 257.
—, Stubbs, E. L., & Mackey, W. L., 257.
Livingston, W. K. See Anderson, R., et al., jt. authors, 156.
Lleras, A. S., & Figueroa, L., 45.
—. See also Samper, B., jt. author, 45.
Loew, E. R., & Kaiser, M. E., 455.
Lombard, C. See Chelle, P., jt. author, 193.
Lominski, I., & Roberts, G. B. S., 435.
—, & Thomson, G. R., 251.
Long, J. C., & Danielson, R. W., 440.
Longanecker, D. S. See Burroughs, A. L., et al., jt. authors, 96.
Longley, E. O. See Stuart-Harris, C. H., et al., jt. authors, 101.
Loosli, C. G., Wise, H., Lemon, H. M., Puck, T. T., & Robertson, O. H., 458.
—. See also Puck, T. T., et al., jt. authors, 458.
Loosli, J. K. See Willman, J. P., et al., jt. authors, 169.
Lopez y Lopez, C., 288.
Lord, J. W., 402.
Loriga, G. See Lucrezi, G., jt. author, 67.
Lovell, D. L., 343.
Loutit, J. F., & McClean, D., 304.
Lovell, R., 49, 339, 399.
Lowe, H. J., 462.
Lowenthal, J. See Officer, R., et al., jt. authors, 202.
Lucas, A., 427.
Lucas, A. M., & Riser, W. H., 10.
Lucas, C. C. See Beveridge, J. M. R., et al., jt. authors, 402.
Lucas, E. H., & Lewis, R. W., 409.
Luck, J. M., & Hall, V. E., 21.
—, & Smith, J. H. C., 79
Lucker, J. T., & Neumayer, E. M., 354.
Lucrezi, G., & Loriga, G., 67.
Ludeña, F. P. See Cutting, W. C., et al., jt. authors, 372.
Lührs, E., 13.
Lütje, 133.
Lugg, J. W. H., 79.
—. See also Best, R. J., jt. author, 190.
Lukey, E. J. See Whitten, L. K., jt. author, 308.
Lundquist, N. S., & Phillips, P. H., 114.
Lutsch, E., 146.
Lutz, J. F. See Harne, O. G., et al., jt. authors, 53.
Lwoff, A. See Matti, J., et al., jt. authors, 119.
Lyday, V. I. See Webb, H. B., et al., jt. authors, 32.
Lynch, E. M. See Nutini, L. G., jt. author, 373.

M

Maas, A., 269.
McAdam, I. W. J., Duguid, J. P., Challinor, S. W., & McCall, A., 243.
McAlister, J. See Augustine, D. L., et al., jt. authors, 57.
McAlister, L. C., Jr. See Bushland, R. C., et al., jt. authors, 28.
McAlister, N., 196.
Macbeth, A. M. See Atkinson, N., et al., jt. authors, 340.
McCall, A. See McAdam, I. W. J., et al., jt. authors, 243.
MacCallum, F. O., & Miles, J. A. R., 224.
—. See also Buckland, F. E., et al., jt. authors, 150.
McCarter, J. R. See Powelson, D. M., jt. author, 87.
McCarthy, D. F., 103.
McCasland, G. M. See Campbell, D. H., jt. author, 434.
McChesney, E. W., 169.
—, Barlow, O. W., & Klinck, G. H., Jr., 169.
—, & Giacomino, N. J., 160.
McClean, D. See Loutit, J. F., jt. author, 304.
McClosky, W. T., & Smith, M. I., 449.
—. See also Smith, M. I., jt. author, 121, *bis*.
—. See also Smith, M. I., et al., jt. authors, 452.
McClung, L. S. See Sanders, D. W., et al., jt. authors, 166.
McCollum, E. V. See Parsons, E. I., et al., jt. authors, 295.
McConachy, S. See Baskett, R. G., et al., jt. authors, 440.
McCoord, A. B. See Zeldis, L. J., et al., jt. authors, 364.
McCormick, J. R. See Cavallito, C. J., et al., jt. authors, 409.
McCoy, E. See Evenson, A., et al., jt. authors, 426.
McCreary, J. F. See Tice, J. W., et al., jt. authors, 248.
McDaniel, L. E. See Foster, J. W., et al., jt. authors, 451.
McDiarmid, A. See Holman, H. H., jt. author, 183.
Macdonald, A., 377.
MacDonald, A. J., & Krishnan, T. S., 174.
McDonald, I. W., 51.
Macdonald, W. C. See Muether, R. O., jt. author, 47.
McDowell, M. A. See Nutini, L. G., Sr., et al., jt. authors, 427.
McElroy, W. D., Whiteley, A. H., Warren, G. H., & Harvey, E. N., 161.
—. See also Harvey, E. N., et al., jt. authors, 161, *ter*.
McEwen, A. D., 341, *bis*.
McEwin, J. See Burnet, F. M., et al., jt. authors, 431.
Macfarlane, R. G., & MacLennan, J. D., 184.
—. See also Carter, C. W., et al., jt. authors, 405.
—. See also MacLennan, J. D., jt. author, 426.
McFarlane, V. H. See Winter, A. R., et al., jt. authors, 458.
McGavack, T. M., Elias, H., & Boyd, L. J., 454.
McGillvray, C. D., 90, 133.
Macgregor, A. D., 10.
Macgregor, C. H. See Franklin, M. C., jt. author, 195.
Macgregor, J. V., 58.
McGugan, A. C., 221.
MacHatton, R. M. See Chen, G., et al., jt. authors, 453.
Machle, W. See Largent, E. J., et al., jt. authors, 81.
Machul'skii, S. N., 7.
McIlroy, W. J. See Doyle, T. M., jt. author, 69.
McIlwain, H., 318.
—, & Hughes, D. E., 318.
McIntire, J. M. See Schweigert, B. S., et al., jt. authors, 443.
McIntosh, J., Robinson, R. H. M., Selbie, F. R., Reidy, J. P., Blake, H. E., & Guttmann, L., 59.
McIntosh, R. A., 91, 159.
McKee, A. P. See Hale, W. M., jt. author, 143.
MacKellar, W. M., 36.
MacKenna, R. M. B., & Cooper-Willis, E. S., 82.
Mackerras, I. M., & Mackerras, M. J., 396.
Mackerras, M. J. See Mackerras, I. M., jt. author, 396.
Mackey, W. L. See Live, I., et al., jt. authors, 257.
McKibbin, J. M., Thayer, S., & Stare, F. J., 443.
—. See also Stare, F. J., et al., jt. authors, 79.
Mackie, C. See Moore, T., jt. author, 136.
McKinney, R. S. See Davis, G. K., et al., jt. authors, 279.
McKinney, S. E. See Mattis, P. A., et al., jt. authors, 318.
Mackintosh, W. L. S., 333.
McLean, I. W., Beard, D., Taylor, A. R., Sharp, D. G., & Beard, J. R., 99.
McLean, I. W., Jr., Beard, D., Taylor, A. R., Sharp, D. G., & Beard, J. W., 142.
—. See also Beard, J. W., et al., jt. authors, 142.
—. See also Sharp, D. G., et al., jt. authors, 220.
—. See also Taylor, A. R., et al., jt. authors, 142.
MacLennan, J. D., & Macfarlane, R. G., 426.
—. See also Macfarlane, R. G., jt. author, 184.
MacLeod, C. M., & Stone, E. R., 410.
McLeod, D. H. See Edwards, S. J., et al., jt. authors, 341.
McLeod, W. M. See Bechtel, H. E., jt. author, 129.
Maclouf, A. C., 305.
—. See also Troisier, J., et al., jt. authors, 352.
McMahon, M. C. See Prince, F. M., jt. author, 424.
McNeil, E., & Hinshaw, W. R., 122, 257.
—. See also Hinshaw, W. R., jt. author, 371.
McOmie, W. A. See Cameron, H. S., jt. author, 82.
McPhee, H. C., 34.
McShan, W. H. See Casida, L. E., et al., jt. authors, 125.
McVeigh, I. See Burkholder, P. R., et al., jt. authors, 202.
Madaus, G., & Koch, F. E., 83.
Madden, F. J., 74.
Madden, S. C., Woods, R. R., Schull, F. W., & Whipple, G. H., 20.
Madinaveitia, J., Martin, A. R., Rose, F. L., & Swain, G., 119.
Madsen, T., Holm, J., & Jensen, K. A., 255.
Magid, M. A. See Culp, O. S., et al., jt. authors, 58.
Magill, T. P., Plummer, N., Smillie, W. G., & Sugg, J. Y., 143.
Magnusson, H., 2.
Mahaffey, L. W., Bennetts, H. W., & Flood, A. F., 195.
Maher, C., 175.
Maher, F. T., 252.
—. See also Schloemer, H. F., et al., jt. authors, 319.
Mahlstedt, H., 347.
Maidana, V., 294.
Maiskiĭ, I. N., 293.
Malakhov. See Nikol'skiĭ, S. N., et al., jt. authors, 219.
Malan, J. R. See Clark, R., et al., jt. authors, 363.
—. See also Groenewald, J. W., et al., jt. authors, 363.
Malcomson, M. E. See Craigie, J., et al., jt. authors, 350.
Maldonado, G., 391.

Maldonado, J. F., 227.
Malheiro, D. M. See Váz, Z., et al., jt. authors, 59.
Malpress, F. H. See Folley, S. J., et al., jt. authors, 52, 53.
Man, E. B. See Gildea, E. F., jt. author, 79.
Manchester, T. C. See Baier, W. E., jt. author, 208.
Mandel, H. See Krichesky, B., jt. author, 277.
Mandelstam, J. See Gillman, J., et al., jt. authors, 19.
Mandl, F., 55.
Mani, M. S., 192.
Mann, F. C. See Chapman, A., et al., jt. authors, 117.
—. See also Feldman, W. H., et al., jt. authors, 410.
Mann, T., 277.
Mann, T. B., 310.
Manninger, R., 392.
Manouélian, Y., 44.
Mansfield, M. E., 268.
Mansjoer, M. See Kraneveld, F. C., jt. author, 131.
Manwaring, W. H., 315, 320.
Manwell, R. D., 296.
Manzini, C., 133.
Marcenac, 405.
Marchesani, I., 27.
Maré, C. v. E. See Thomas, A. D., jt. author, 222.
Margolis, G., Forbus, W. D., & Kerby, G. P., 135.
Marks, H. C., Wyss, O., & Strandskov, F. B., 126.
Marschall, F. See Westphal, A., jt. author, 43.
Marsh, H., 140.
—. See also Seghetti, L., jt. author, 124.
Marsh, H. C. See Parker, R. F., jt. author, 372.
Marshak, A., 455.
—, & Walker, A. C., 455.
Marshall, P. B., 58.
Martel, H., 461.
Martin, A. R., & Rose, F. L., 119.
—. See also Madinaveitia, J., et al., jt. authors, 119.
Martin, D. S., Erickson, J. O., Putman, F. W., & Neurath, H., 13.
Martin, L. A. See Bridré, J., jt. author, [illegible]
Martin, N. H. See Findlay, G. M., et al., jt. authors, 431.
Martin, R. A. See Steinberg, B., jt. author, 311.
Martin, S. P. See Kirby, W. M. M., et al., jt. authors, 319.
Martin, W. H. See Caulfield, W. J., jt. author, 171.
Martinet, M. See Giroud, A., et al., jt. authors, 52.
Martins, T., do Valle, J. R., & Porto, A., 315.
Marx, W. See Becks, H., et al., jt. authors, 117.
Maschmann, E., 40, *bis*, 41.
Maskar, U., 229.
Mason, K. E., & Emmel, A. F., 51.
Massler, M. See Schour, I., jt. author, 196.
Masucci, P., 303.
Mata, E. G., 407.
—, & Cano, A. E., 286.
Mathews, F. P., 346, 450.
Mathur, N. L., & Ray, S. C., 196.
Matoff, K., 436.
Matthews, H. T., 415.
Mattysse, J. G., 205.
Matti, J., Nitti, F., Morel, M., & Lwoff, A., 119.
Mattick, A. T. R., & Hirsch, A., 326.
Mattingly, J. P. See Bird, H. R., et al., jt. authors, 313.
Mattis, P. A., McKinney, S. E., Patch, E. A., & Williams, E. L., 318.
—. See also Beyer, K. H., et al., jt. authors, 26.
Maun, M. E., Cahill, W. M., & Davis, R. M., 158.
Maurer, F. D., 262.
—, Walker, R. V. L., Shope, R. E., Griffiths, H. J., & Jenkins, D. L., 262.
—. See also Hale, M. W., et al., jt. authors, 262.
—. See also Jones, T. C., et al., jt. authors, 44.
—. See also Shope, R. E., et al., jt. authors, 261.
Maxcy, K. F. See Blake, F. G., et al., jt. authors, 70.
May, H. E. See Bedson, S. P., jt. author, 123.
Mayer, D. T., & Lasley, J. F., 163.
Mayer, M. M. See Bier, O. G., et al., jt. authors, 13.
Mayer, R. L., 256.
Mayfield, O. J. See Morehouse, N. F., jt. author, 411.
Mayhew, B. R. See Delaune, E. T., jt. author, 16.
Mayoral, P., 231.
Mead, S. W., Gregory, P. W., & Regan, W. M., 76.
—. See also Baker, G. A., et al., jt. authors, 164.
Medawar, P. B., 165.
Medlicott, M. See Smith, S. E., jt. author, 20.
—. See also Smith, S. E., et al., jt. authors, 20, *bis*.
Medrano, S. W., 208.
Megale, 61.
Megaw, J. W. D., 71.
Mehrhof, N. R. See Davis, G. K., et al., jt. authors, 279.
Meier, A., 230.
Meiklejohn, G. See Eaton, M. D., jt. author, 143.
—. See also Eaton, M. D., et al., jt. authors, 100, *bis*.
de Meillon, B., & Lavoipierre, M., 102.
Meinecker, H., 280.
Meisel, D. See Twombly, G. H., jt. author, 309.
Melamed, A., & Fine, J. M., 393.
Melcher, L. R., 228.
Meleney, F. L. See Jern, H. Z., jt. author, 201.
—. See also Johnson, B. A., et al., jt. authors, 242.
Mello, M. I., 236.
Mello, M. J., & Cuoccolo, R., 105.
Mellors, R. C. See Bodian, D., jt. author, 23.
—. See also Howe, H. A., jt. author, 115.
Melnick, J. L., Horstmann, D. M., & Ward, R., 149.
de Melo Malheiro et al., 61.
Meltzer, S. See Cameron, A. T., et al., jt. authors, 18.
Melvin, P. See Hurst, E. W., et al., jt. authors, 188.
Méndez, E. P., 154.
Menke, W. J., Jr. See Salk, J. E., et al., jt. authors, 143.
Menkin, V., 312.
Menzies, D. B., 248.
Meotsch, J. C. See Raiziss, G. W., et al., jt. authors, 26.
Mercier, E. See Salisbury, G. W., jt. author, 80.
Mercier, P. See Kourilsky, R., jt. author, 337.
—. See also Nicol, L., jt. author, 4.
—. See also Ramon, G., et al., jt. authors, 385.
Mertens, E. See Ehrich, W. E., et al., jt. authors, 304, 433.
Metcalf, D., Hucker, G. J., & Carpenter, D. C., 444.
Meyer, A. See Seelemann, M., jt. author, 293.
Meyer, F. L. See Abbott, W. E., et al., jt. authors, 165.
Meyer, J. R., 82.
Meyer, K. A. See Popper, H., et al., jt. authors, 283.
Meyer, K. F., 248.
—. See also Burroughs, A. L., et al., jt. authors, 96.
—. See also Sawyer, W. A., et al., jt. authors, 11.
Meyer, R., 85.
Meyer, R. K. See Casida, L. E., et al., jt. authors, 125.
de Meza, J. 420.
Michaelis, R. See Coulthard, C. E., et al., jt. authors, 119.
Michelsen, E., 8, 298.
—, & Mikkelsen, K., 428.
Middlebrook, G. See Yegian, D., et al., jt. authors, 423.
Mikkelsen, K. See Michelsen, E., jt. author, 428.
Miles, J. See Brunschwig, A., et al., jt. authors, 207.
Miles, J. A. R. See MacCallum, F. O., jt. author, 224.
Milin, J. See Charton, A., jt. author, 193.
Miller, A. W., 34, 222.
Miller, E. W., & Pybus, F. C., 355, *bis*.
Miller, J. K. See Abrahams, I., jt. author, 371.
Miller, L. C. See Cavallito, C. J., et al., jt. authors, 243.
Miller, L. L., Robscheit-Robbins, F. S., & Whipple, G. H., 113.
—. See also Robscheit-Robbins, F. S., et al., jt. authors, 197.
Miller, P. A. See Mueller, J. H., jt. author, 460.
Miller, R. C., 158.
—. See also Pence, J. W., et al., jt. authors, 404.
Miller, R. F. See Cole, H. H., et al., jt. authors, 164.
Miller, W. T., 37.
Millin, T. See Dodds, E. C., et al., jt. authors, 246.
Mills, M. A. See Gunn, F. D., et al., jt. authors, 387, 422.
Mills, M. F. See Crampton, E. W., jt. author, 110.
Milovanov, V. K., 236, 238.
—, & Shergin, N. P., 316.
Milzer, A., Oppenheimer, F., & Levinson, S. O., 209.
—. See also Levinson, S. O., et al., jt. authors, 70, 209.
Minett, F. C., & Dhanda, M. R., 180.
—. See also Sen, S. K., jt. author, 213.
Minguet, P. See Ramon, G., et al., jt. authors, 187.
Mironov, V. S. See Chumakov, M. P., et al., jt. authors, 300.
Mitchell, C. A., & Gwatkin, R., 40.
—, & Pullin, J. W., 9.
Mitchell, J. B. See Findlay, G. M., et al., jt. authors, 431.
Mitchell, J. W. See Stevenson, E. C., jt. author, 120.
Mitchell, P. D. See Barcroft, J., et al., jt. authors, 24.
Mitchell, R. L. See Stewart, J., et al., jt. authors, 402.
Mitscherlich, E., 322, 350, 417.
Mohan, R. N., 229.
Moldavsky, L. F., Hasselbrock, W. B., Cateno, C., & Goodwin, D., 409.
Molitor, H., Graessle, O. E., Kuna, S., Muchett, C. W., & Silber, R. H., 372.
Møller, F., & Petersen, A., 320.
Monod, J., 134.
Monroe, C. F. See Hibbs, J. W., et al., jt. authors, 404.
Monserrat, J. L. See Elizalde, P. I., et al., jt. authors, 291.
Montemagno, F., 68.
Monteverde, J. J., & Simeone, D. H., 135, 340.
Montgomery, M. L. See Sheline, G. E., et al., jt. authors, 22.
Montilla, E. See Oliver-González, J., jt. author, 551.
Moor, J. W. See Klein, L. A., et al., jt. authors, 120.
Moore, C. V. See Reinhard, E. H., et al., jt. authors, 412.
Moore, D. H. See Chargaff, E., jt. author, 63.
Moore, F. D., Sawyer, C. S., & Blount, S. G., Jr., 214.
Moore, F. J. See Kessel, J. F., et al., jt. authors, 302.
Moore, L. A., 359.
—, & Berry, M. H., 359.
—, & Cotter, J. W., 160.

Moore, R. L. See Gibbons, N. E., jt. author, 64.
Moore, S. See Reinhard, E. H., et al., jt. authors, 412.
Moore, T., & Mackie, C., 136.
Moore, W., 388.
de Morais, et al., 61.
Morcos, Z., 349.
Moreau, A. B., 232.
Morehouse, N. F., 104.
—, & Mayfield, O. J., 411.
Moreira, J., & Florence, C. H., 111.
Moreira-Jacob, M., 337, *bis*.
Morel, M. See Matti, J., et al., jt. authors, 119.
Moreno Fernandez, R. See Virviescas, F., jt. author, 401.
Morgan, A. F., & Groody, M., 169.
Morgan, D. O., & Sloan, J. E. N., 192.
Morgan, I. M., 68.
Morquer, R., & Comby, L., 136.
Morris, C. S., & Edwards, M., 30.
Morris, H. P., 110.
Morris, M. L., Nakamura, F. I., & Atkinsin, L. N., 196.
Morris, R. C., 44.
Morrison, F. B. See Willman, J. P., et al., jt. authors, 169.
Morton, H. E., & Engley, F. B., Jr., 351, *bis*.
—, Kocholaty, W., Junowicz-Kocholaty, R., & Kelner, A., 372.
Mosalev, B. S., 206.
Moses, C., 57.
Mosna, E., 6.
Moss, L. C., 1.
Mostyn, H. J., 160.
Moszczenski, Z., & Krupski, A., 144.
Mott, L. O., Stein, C. D., & Heishman, J. O., 411.
—. See also Orr, L. W., jt. author, 205.
Moule, G. R., 367.
Mouquin, Bastin, Lefèvre, 281.
Mourant, A. E. See Coombs, R. R. A., et al., jt. authors, 305.
Moynihan, I. W. See Gwatkin, R., jt. author, 4.
—. See also Gwatkin, R., et al., jt. authors, 214.
Mudaliar, S. V., 14, 339.
Mudd, S., 247.
—. See also Ehrich, W. E., et al., jt. authors, 304.
—. See also Halbert, S. P., et al., jt. authors, 191.
—. See also Sevag, M. G., et al., jt. authors, 167.
Mudrow, L., 6.
—. See also Reichenow, E., jt. author, 250.
Mülhens, K., 411.
Müller, E., 349.
Mueller, J. H., & Miller, P. A., 460.
Mueller, J. M., 79.
Müssemeier, 392.
Muether, R. O., & Macdonald, W. C., 47.
Muir, R. D. See Hays, E. E., et al., jt. authors, 451.
Mukerjee, S., 304.
Mukerji, A., & Das, D. N., 204.
Mukherjee, R. See Kehar, N. D., et al., jt. authors, 197, *bis*.
Mullet, R., 113.
Mulligan, R. M., 198.
Munch-Petersen, E., 337.
—. See also Christie, R., et al., jt. authors, 179.
Mundel, B. See Gear, J., et al., jt. authors, 349.
—. See also Gear, J. H. S., et al., jt. authors, 349.
Muniz, J., & de Freitas, G., 217.
Munro, J. W., 28.
Murnane, D., 370.
Muromtsev, S. N., 97.
Murphy, J. M., & Pfau, K. O., 168.
Murphy, W. J., Petrie, L. M., & Work, S. D., Jr., 350.
Murphy, W. J. B., 181.
Murty, V. V. S. See Kehar, N. D., et al., jt. authors, 197.
Mushett, C. W. See Molitor, H., et al., jt. authors, 372.
Muth, O. H., 267.
—, & Haag, J. R., 51.
Myshkin, P. See Fomina, A., et al., jt. authors, 131.

N

Nadeau, J. D. See Genest, P., jt. author, 1.
Naidenova, G. A. See Chumakov, M. P., jt. author, 300.
Nairn, W., 357.
Nakamura, F. I. See Morris, M. L., et al., jt. authors, 196.
Nanda, P. N., & Singh, K., 38.
Nasonov, A. F., 196.
Naumann, B. See Ekman, C. A., jt. author, 239.
Nauts, H. C., Swift, W. E., & Coley, B. L., 376.
Neal, J. L. See Levinson, S. O., et al., jt. authors, 209.
Neal, P. A., Sweeney, T. R., Spicer, S. S., & von Oettingen, W. F., 454.
Neander, G., 314.
Necheles, H., & Olson, W. H., 23.
Neghme, R. A., 267.
Negroni, P., 395, *bis*, 409.
—, & Fischer, I., 409.
Neitz, W. O., 265.
—, & Riemerschmid, G., 223.
Neiva, 61.
Neiva, A., filho. See Gudin, M., jt. author, 243.
Nelson, A. A., Draize, J. H., Woodard, G., Fitzhugh, O. G., Smith, R. B., Jr., & Calvery, H. O., 25.
—. See also Draize, J. H., et al., jt. authors, 241.
—. See also Fitzburgh, O. G., et al., jt. authors, 25.
Nelson, C. I. See Foss, J. O., jt. author, 258.
Neri, F., & Rosa, S., 82.
Neri, M., 260.
Nesmeyanova, T. N. See Glembotskii, Y. L., et al., jt. authors, 317.
—. See also Shergin, N. P., jt. author, 317.
Ness, A. T. See Lawton, A. H., et al., jt. authors, 375.
Nesterova, 77.
Neter, E., 451.
Nettleship, A., 17.
Neuberger, A. See Glynn, L. E., et al., jt. authors, 312.
Neufeld, F., 324.
Neumayer, E. M. See Lucker, J. T., jt. author, 354.
Neurath, H. See Martin, D. S., et al., jt. authors, 13.
Nevin, S. M., 86.
Newell, G. W. See Elvehjem, C. A., et al., jt. authors, 235.
Newhall, C. A. See Traub, E. F., et al., jt. authors, 170.
Newman, R. W., 88.
Nicholl, R. J., Boucher, W. F., & Prince, R. W., 284.
Nichols, S. See Brunschwig, A., et al., jt. authors, 207.
Nicholson, A. J. See Belschner, jt. author, 307.
Nicholson, L. W., & Breneman, W. R., 441.
Nicol, L., & Mercier, P., 4.
—, & Virat, B., 27.
—. See also Ramon, G., et al., jt. authors, 187.
Nicolle, P., 432.
Nielsen, J., 358.
Nikolaev, V. A., 183.
Nikol'skii, S. N., Desyatov, F. M., & Malakhov, N. V., 219.
Nikol'skii, V. V., 46, *bis*.
Nitti, F., See Matti, J., et al., jt. authors, 119.
Niven, J. S. F. See Buckland, F. E., et al., jt. authors, 150.
Niwa, M. See Ito, S., et al., jt. authors, 67.
Nobrega, P., & Bueno, R. C., 65, *bis*.
Nörr, J., 47.
Nohle, E. G. See Supplee, G. C., et al., jt. authors, 110. *bis*.
Nolte, W. A., & James, L. H., 126.
Noran, H. H., 230.
Norbert, P., 176.
Nordskog, A. W., & Clark, R. T., 450.
Norris, E. R., & Elliott, H. W., 448.
Norris, L. C., & Heuser, G. F., 79.
—. See also Daniel, L. J., et al., jt. authors, 442.
Norris, M., 348.
North, E. A., & Christie, R., 372.
Northrup, M. A., 417.
Northup, D. W. See van Liere, E. J., et al., jt. authors, 317.
Nosik, A. F., 192.
Nouvel, J. See Urbain, A., jt. author, 15.
—. See also Urbain, A., et al., jt. authors, 96.
Noval, M. See Kleinberg, J., et al., jt. authors, 324.
Novicky, R., 223.
Nutini, L. G., Kreke, C. W., & Schroeder, M. P., 185.
—, & Lynch, E. M., 373.
Nutini, L. G., Sr., Kelly, T. A., & McDowell, M. A., 427.
Nyffenegger, A., 358.
Nyiredy, S., 136, 284.
Nyka, W., 303.

O

O'Brien, J. R. P. See Carter, C. W., et al., jt. authors, 405.
Odin, M., 431.
von Oettingen. See Neal, P. A., et al., jt. authors, 454.
Officer, R., Lowenthal, J., & Perry, J. W., 202.
Ogloblina, L. S., & Ponomareva, N. A., 266.
O'Grady, M. K. See Beveridge, J. M. R., et al., jt. authors, 402.
Ohe, H. See Schoop, G., jt. author, 411.
van Oijen, C. F., 457.
Olafson, P. See Willman, J. P., et al., jt. authors, 169.
Olbrycht, T. M., 286.
Olelnik, N. K., & Avramenko, G. D., 38.
Oleson, A. P., 119.
—. See also Benedict, R. G., et al., jt. authors, 118.
Oliphant, J. W., & Hollaender, A., 350.
Olitsky, P. K., & Casals, J., 219.
—. See also Casals, J., jt. author, 300.
Olitzki, L., 182.
—, & Bernkopf, H., 302.
Oliveira, 61.
Oliver-González, J., & Montilla, E., 351.
—, & Torregrosa, M. V., 14.
—. See also Culbertson, J. T., et al., jt. authors, 375.
Olsen, O. W., 48, 283.
—, & Fenstermacher, R., 308.
Olson, B. J., & Larson, C. L., 349.
—. See also Emmons, C. W., et al., jt. authors, 295.
Olson, C., Jr., 107, 438.
—, & Warren, F. G., 60.
Olson, F. C. W. See Bigg, E., et al., jt. authors, 126.
—. See also Jennings, B. H., et al., jt. authors, 126.
Olson, W. H. See Necheles, H., jt. author, 23.
Olszyzka, E., 23.
Omer-Cooper, J., & Whitnall, A. B. M., 197.
O'Neil, C. B. See Hirsh, H. L., et al., jt. authors, 451.
Oppenheimer, F. See Levinson, S. O., et al., jt. authors, 209.
—. See also Milzer, A., et al., jt. authors, 209.
Oppermann, T., 268.
Oritz, M., 294.
Orlandini, 61.
Orlova, N. N. See Chumakov, M. P., et al., jt. authors, 300.
Orr, J. H. See Reed, G. B., jt. author, 121.
Orr, J. W. See Hoyle, L., jt. author, 270.
Orr, L. W., & Mott, L. O., 205.
Orr, W., 148.
—, & John, K. T., 393.
Orten, A. U. See Burn, C. G., et al., jt. authors, 51.

Ortlepp, R. J., 229.
Osberghaus, F., 245.
Osorno Mesa, E., 227.
Osterberg, A. E. See Uihlein, A., et al., jt. authors, 174.
Osterud, C. M. See Weiser, R. S., jt. author, 343.
Ott, W. H. See Seeler, A. O., jt. author, E.
Ottaway, C. W., 164.
Otte, W., 226.
Otten, E., 103.
Ottosen, H. E., 398.
Overman, R. S., Stahmann, M. A., Huebner, C. F., Sullivan, W. R., Spero, L., Doherty, D. G., Ikawa, M., Graf, L., Roseman, S., & Link, K. P., 368.
Owen, R. D., 395.
—, Stormont, C. J., & Irwin, M. R., 55.
Oxford, A. E., 79.
Ozek, O., 326.

P

Pacchioni, G., 65, 66.
—, & Biavati, F., 233.
Packchanian, A., 178.
Padmanobhan, C. V., 256.
Paff, G. H., Lehman, R. A., & Halperin, J. P., 455.
Page, E. W. See Sapirstein, L. A., et al., jt. authors, 435.
Painter, R. H. See Gwatkin, R. et al., jt. authors, 214.
Palt, C. F. See Kessel, J. F., et al., jt. authors, 302.
Paiva, O. M., 199.
Pallaske, G., 30, 348, 357, 439.
Palmeiro, J. M., 265.
Palmer, C. C., Kakavas, J. C., & Biddle, E. S., 339.
Palmer, L. S. See Kennedy, C., jt. author, 443.
Panditesekere, D. G. See Joachim, A. W. R., jt. author, 117.
Panin, F. T. See Khabas, I. M., jt. author, 266.
Pappenheimer, A. M. See Victor, J., jt. author, 361.
Paraense, W. L., 260.
Partentjev, I. A., & Goodline, M. A., 352.
Parin, V. V. See Babsky, E. B., et al., jt. authors, 464.
Parish, H. E. See Parman, D. C., et al., jt. authors, 306.
Parker, J. E., 30.
Parker, R. C., & Hollender, A. J., 428.
Parker, R. F., & Marsh, H. C., 372.
—. See also Bronson, L. H., jt. author, 187.
Parker, R. R. See Jellison, W. L., jt. author, 423.
Parkes, A. S., 445, 446.
—. See also Deanesly, R., jt. author, 274, *bis*.
—. See also Deanesly, R., et al., jt. authors, 274, 446.
Parman, D. C., Lindquist, A. W., Barrett, W. L., Jr., Parish, H. E., Brody, A. L., Rogers, E. E., & Deonler, C. C., 306.
Parnell, J. See Yoffey, J. M., jt. author, 276.
Parr, L. W., & Thomas, H., 134.
Parrot, L. See Foley, H., jt. author, 63.
Parshutin, G. V., & Skatkin, P. N., 163.
Parsons, E. I., McCollum, E. V., & Frobisher, M., Jr., 295.
Patch, E. A. See Mattis, P. A., et al., jt. authors, 318.
Paterson, A. B., 171.
Paterson, E., Thomas, I. A., Haddow, A., & Watkinson, J. M., 376.
Paterson, J. D. See Gallie, J. G. E., jt. author, 25.
Pattison, I. H., 100, 346, 400.
Patton, J. W., 51, 359.
Paul, J. R. See Havens, W. P., Jr., et al., jt. authors, 302.
Pavlovskii, E. N., & Skrynnik, A. N., 307.
Payne, L. F., 461.
Pearce, L. See Brown, W. H., jt. author, 233.
Pearson, H. E., 190.
Pearson, J. K. L. See Lamont, H. G., et al., jt. authors, 387.
Pearson, P. See Seeley, H. W., Jr., et al., jt. authors, 280.
Pease, D. C. See Harvey, E. N., et al., jt. authors, 161, *ter*.
Peatt, E. S. W., 85.
Pederson, C. S., & Fisher, P., 242.
Pellegrini, D., 422, 432.
Pelouro, J. T., 73.
Pence, J. W., Miller, R. C., Dutcher, R. A., & Ziegler, P. T., 404.
Pentimalli, F., 399.
Pepler, H. J., & Twiehaus, M. J., 184.
Pérard, C., 9.
Pereira, C., & de Castro, M. P., 88.
Pereira, R. S., & Araujo, J. O., 198.
—. See also Vaz, Z., et al., jt. authors, 59.
Perkins, E. M., 311.
Perkins, J. E., 458.
Perlzweig, W. A., 79.
Pernitzsch, G. See Schützler, G., jt. author, 444.
Perry, D. J. See Spies, T. D., et al., jt. authors, 362.
Perry, E. J., & Bartlett, J. W., 115.
Perry, J. W. See Officer, E., et al., jt. authors, 202.
Perry, K. M. A. See Hunter, D., et al., jt. authors, 240.
Perry, M. C. See Hansmann, G. H., jt. author, 56.
Peters, J. P. See Danowski, T. S., et al., jt. authors, 440.
Peters, L. See Beyer, K. H., et al., jt. authors, 26, *bis*.
Peters, V. B. See Dalton, A. J., jt. author, 106.
Petersen, A. See Møller, F., jt. author, 320.
Petersen, C. B., 392.
Petersen, G., 306.
Petersen, W. E. See Knodt, C. B., jt. author, 235.
—. See also Smith, V. R., jt. author, 275.
Peterson, M. S. See Peterson, W. H., jt. author, 185.
Peterson, O. L. See Finland, M., et al., jt. authors, 100, 101, *bis*.
Peterson, W. H., & Peterson, M. S., 185.
Petherick, M. H., & Singer, E., 150.
Petrie, L. M. See Murphy, W. J., et al., jt. authors, 350.
Petrov, A. M., Gaibov, A. D., & Gagarin, V. G., 17.
Petrova, S. P. See Chumakov, M. P., et al., jt. authors, 300.
Pfau, K. O. See Murphy, J. M., jt. author, 168.
Philip, C. B. See Kohls, G. M., et al., jt. authors, 70.
Philips, F. S., & Gilman, A., 449.
—, —, & Crescitelli, F. N., 449.
—. See also Gilman, A., jt. author, 375.
Phillips, G. E. See Wien, R., et al., jt. authors, 202.
Phillips, P. H., 401.
—. See also Cunha, T. J., et al., jt. authors, 234.
—. See also Ellis, N. R., et al., jt. authors, 313.
—. See also Lundquist, N. S., jt. author, 114.
—. See also Ross, O. B., et al., jt. authors, 234.
Phillips, R. W., 330.
Pichat, P., 203.
Pickett, M. J., 41.
Piercy, P. L., & Rusoff, L. L., 449.
Pigoury, L., 88.
Pinkerton, H. See Greiff, D., jt. author, 10.
Pires, A., 268.
—. See also Prieto, D., jt. author, 97.
Pittman, M., 460.
Plastridge, W. N. See Seeley, H. W., Jr., et al., jt. authors, 280, 289, 386.
Platt, B. S., 362.
Platt, W. R., Bluestein, S. G., & Sisson, R. G., 413.
Plummer, H. See Siebenmann, C. O., jt. author, 120.
Plummer, N. See Hirst, G. K., et al., jt. authors, 143.
—. See also Magill, T. P., et al., jt. authors, 143.
Plummer, P. J. G., 107.
Pötschke-Schneider, H. E., 417.
Pogge, R. C. See Faget, G. H., jt. author, 280.
Poisson, J. See Drieux, H., et al., jt. authors, 193.
Pokrovskaya, M. P. See Zhuravlev, P. M., et al., jt. authors, 265.
Polding, J. B., 31.
Pomerat, C. M., & Anigstein, L., 191.
Pomeroy, B. S., 268.
Pondman, A. B. F. A. See Tasman, A., jt. author, 215.
Ponomareva, N. A. See Ogloblina, L. S., jt. author, 266.
Pool, W. A., 387.
Popandopulo, 78.
Pope, C., 342.
Popov, V. M. See Karpov, S. P., jt. author, 292.
Popper, H., Volk, B. W., Meyer, K. A., Kozoll, D. D., & Steigmann, F., 283.
Porter, P. M. See Abramson, H. A., et al., jt. authors, 434.
Porto, A. See Martins, T., et al., jt. authors, 315.
Poth, E. J., Knotts, F. L., Lee, J. T., & Inui, F., 371.
—, & Ross, C. A., 371, *bis*.
—. See also Ross, C. A., jt. author, 279.
Pou, M. C. See Bacigalupo, J., et al., jt. authors, 192.
Pounden, W. D., Ferguson, L. C., & Sunderville, E. J., 172.
—. See also Hibbs, J. W., et al., jt. authors, 404.
Poursines, Y., & Ranque, J., 347.
—. See also Cornil, L., et al., jt. authors, 448.
Povazhenko, I. E., 88.
Powelson, D. M., & McCarter, J. R., 87.
Pozzi, C. M. See Castagnet, A. D., jt. author, 254.
Price, D., 277.
Prickett, C. O. See Burmester, B. R., jt. author, 399.
—. See also Burmester, B. R., et al., jt. authors, 398.
Prieto, D., & Pires, A., 97.
Prill, E. A. See Supplee, G. C., et al., jt. authors, 110.
Prince, F. M., & McMahon, M. C., 424.
Prince, R. W. See Nicholl, R. J., et al., jt. authors, 284.
Prinzmetal, M. See Freed, S. C., et al., jt. authors, 376.
Priouzeau, M. See Guilhon, J., jt. author, 29.
Priselkov, A. M., & Gur'eva, A. M., 73.
Pritchard, E. A. See Fairhall, L. T., et al., jt. authors, 240.
Protela, R. A., 2.
Provost, A. See Roubaud, E., jt. author, 98.
Prüfer, J., 312.
Puck, T. T., Hamburger, M., Jr., Robertson, O. H., & Hurst, V., 324.
—, Robertson, O. H., Wise, H., Loosli, C. G., & Lemon, H. M., 458.
—. See also Hamburger, M., Jr., et al., jt. authors, 324.
—. See also Loosli, C. G., et al., jt. authors, 458.
Puissegur, J. A., 269.
Pukhov, V. I., 16.
Pullin, J. W. See Bryne, J. L., et al., jt. authors, 370.
—. See also Mitchell, C. A., jt. author, 9.
Pullinger, B. D., 268.
Pulvertart, R. J. V., & Yudkin, J., 248.
Purchase, H. S., 38, 128, 241.
Purnell, M. A. See Abramson, H. A., et al., jt. authors, 434.
Pushmenkov, E. P., 185.
Putnam, F. W. See Martin, D. S., et al., jt. authors, 13.
Putnam, P. See Sawyer, W. A., et al., jt. authors, 11.
Pybus, F. C. See Miller, E. W., jt. author, 355, *bis*.

Q

Quarante, M. See Jacquet, J., jt. author, [illegible].
—. See also Verge, J., et al., jt. authors, 259.
Queen, F. B., & Quortrup, E. R., 453.
Quick, A. J., 315.
Quortrup, E. R. See Lakin, H. W., et al., jt. authors, 342.
—. See also Queen, F. B., jt. author, [illegible]23.

R

Rabinovich, E. A. See Shtefko, V. G., jt. author, 290.
Rabstein, M. M., & Cotton, C., 388.
Race, R. R. See Coombs, R. R. A., et al., jt. authors, 305.
Radeleff, R. D., 21, 454.
Rae, J., 325.
Raghavachari, K., 7.
Rahn, O., 379.
Rainey, J. W., 63, 359.
Raistrick, H. See Coulthard, C. E., et al., jt. authors, 119.
Raiziss, G. W., Severao, M., & Moetsch, J. C., 26.
Rake, G., Alexander, R., & Hamre, D. M., [illegible]
Ramage, G. R. See Cragg, J. B., jt. author, 306.
Ramakrishnan, T. S. See Thomas, K. M., et al., jt. authors, 216.
Ramanoff, A. L., 316.
Ramon, G., 394.
—, Bénard, H., Boquet, P., Richou, R., Tissier, & Ratner, 347.
—, & Lemétayer, E., 9.
—, —, Lasfargues, E., Minguet, P., Nicol, L., Virat, B., Virat, J., & Yeu, F., 187.
—, —, & Richou, R., 136.
—, Mercier, P., & Richou, R., 385.
Randall, S. S. See Rivers, R. P., jt. author, 272.
—, & Mudrow, L., 260.
Randoin, L., 402.
Rangsit, P., 161.
Ranque, J. See Poursines, Y., jt. author, 347.
Rao, M. N. See Hegsted, D. M., jt. author, 404.
Rao, N. S. See Bhalerao, G. D., jt. author, 227.
Raoul, Y. See Gounelle, H., et al., jt. authors, 361.
Raper, A. B., 328.
Raper, K. B., Alexander, D. F., & Coghill, R. D., 118.
Rasmussen, R. A. See Carlton, L. M., Jr., et al., jt. authors, 233.
Ratner. See Ramon, G., et al., jt. authors, 347.
Rau, K. G. See Kekar, N. D., jt. author, 240.
Raucourt, M., 411.
Ray, S. C. See Mathur, N. L., jt. author, 196.
Raymond, W. F., 457.
Redmon, C. F. See Forgacs, J., et al., jt. authors, 451.
—. See also Kornegay, G. B., et al., jt. authors, 451.
Reece, R. P., 323.
Reed, B. P. See Reed, C. I., jt. author, [illegible]
Reed, C. I., & Reed, B. P., 366.
—. See also Schiller, A. A., et al., jt. authors, 234.
Reed, G. B., & Orr, J. H., 121.
Reed, R. K. See Sapirstein, L. A., et al., jt. authors, 435.
Reeve, E. B., 88.
Reeves, W. C. See Hammon, W. McD., jt. author, 299.
—. See also Hammon, W. McD., et al., jt. authors, 188, 347.
Regan, W. M. See Baker, G. A., et al., jt. authors., 164.
—. See also Mead, S. W., et al., jt. authors, 76.
Reichenow, E., 136.
Reid, G., 22.
Reid, J. D., & Jackson, R. M., 284.
Reid, J. T., Huffman, C. F., & Duncan, C. W., 108, 314.
Reid, N. R. See Thomas, A. D., jt. author, 147.
Reid, R. L. See Franklin, M. C., jt. author, 200.
Reid, W. M., 354, 397.
Reidy, J. P. See McIntosh, J., et al., jt. authors, 59.
Reilly, H. C., Schatz, A., & Waksman, S. A., 168.
Reinhard, E. H., Moore, C. V., Bierbaum, O. S., Moore, S., & Kamen, M. D., 412.
Reinhard, M. C., Goltz, H. L., & Warner, S. G., 355.
Reinhold, J. G. See Riggs, H. E., et al., jt. authors, 56.
Reis, A. S. See Reis, J., jt. author, 82.
Reis, J., & Reis, A. S., 82.
Reisinger, L., 233.
Remington, J. W. See Swingle, W. W., jt. author, 55.
Remlinger, P., 182.
Rengers, E. v. W., 463.
Renk, W., 158.
Rennella, E. See Savino, E., jt. author, 297, *bis*.
Reuter, F., 397.
Reynolds, D. S., Hill, W. L., & Jacob, K. D., 271.
—. See also Hill, W. L., et al., jt. authors, 313.
Ribeiro, F., & Guimarães, L. M., 125.
Richards, M. B., 78.
Richards, O. W. See Hofer, A. W., jt. author, 432.
Richardson, R. A. See Sevag, M. G., et al., jt. authors, 167.
Richert, D. See Franke, F. E., jt. author, 398.
Riches, E. W. See Dodds, E. C., et al., jt. authors, 246.
Richou, R., 373.
—, & Holstein, G., 203, 253, 352.
—. See also Ramon, G., et al., jt. authors, 136, 347, 385.
Richter, C. P., & Emlen, J. T., Jr., 378.
Rickard, C. G., 65.
Rickard, E. R., Thigpen, M., & Crowley, J. H., 143.
Riddle, O. See Hollander, W. F., jt. author, 441.
Riecker, O., 275.
Riemerschmid, G. See Neitz, W. O., jt. author, 223.
Rifkin, H., Cekada, E. B., Zarrow, M., Henderson, D. G., & Whitehead, J. O., 223.
Rigdon, R. H., 138.
Riggs, H. E., Letonoff, T. V., & Reinhold, J. G., 56.
Rimpau, W., 67.
Ripsom, C. A., & Herrick, C. A., 57.
Risbec, J., 226.
Riser, W. H., 201.
—. See also Birge, R. F., jt. author, 41.
—. See also Lucas, A. M., jt. author, 10.
Ritter, H., 97.
Rivers, R. P., & Randall, S. S., 272.
Roach, R. W., 339.
Robb, T. P. See Copley, A. L., jt. author, 276.
Robb-Smith, A. H. T., 184, 401.
—. See also Carter, C. W., et al., jt. authors, 405.
Roberts, E. See Severens, J. M., et al., jt. authors, 40, 243.
Roberts, E. C. See Hays, E. E., et al., jt. authors, 451.
Roberts, G. B. S. See Lominski, I., jt. author, 435.
Roberts, J. S. See Asdell, S. A., et al., jt. authors, 115.
Robertson, J. D., 272.
Robertson, M. See Kerr, W. R., jt. author, 137.
Robertson, O. H. See Hamburger, M., Jr., et al., jt. authors, 324.
—. See also Loosli, C. G., et al., jt. authors, 458.
—. See also Puck, T. T., et al., jt. authors, 324, 458.
Robey, T. O., & Hale, M. W., 262.
Robin, V., & Charton, A., 450.
Robinow, C. F., 39.
Robinson, A. R. See Wright, L. E. A., et al., jt. authors, 199.
Robinson, E. M. See Wheeler, W. J., et al., jt. authors, 231.
Robinson, G. See Hill, K. R., jt. author, 118.
Robinson, G. G., 29.
Robinson, H. J., Graessle, O. E., Gundel, M., & Silber, R. H., 372.
—. See also Smith, D. G., et al., jt. authors, 372.
Robinson, K. W. See Lee, D. H. K., et al., jt. authors, 274.
Robinson, R. H. M. See McIntosh, J., et al., jt. authors, 59.
Robscheit-Robbins, F. S., Miller, L. L., & Whipple, G. H., 197.
—. See also Miller, L. L., et al., jt. authors, 113.
Robson, J. M., & Scott, A. A. B., 1.
Roby, T. O. See Jones, T. C., et al., jt. authors, 44.
—. See also Schnelle, G. B., et al., jt. authors, 436.
Rockenmacher, M. See Sobel, A. E., et al., jt. authors, 53.
Rodhain, J., & van den Berghe, L., 328.
—, van Goidsenhoven, A. C., & van Hoof, L., 217.
Rodkey, F. L., & Ball, E. G., 326.
Rodney, G. See Zittle, C. A., et al., jt. authors, 295.
Rodrigues, C., & Guida, V. O., 328.
Rodwell, A. W. See Campbell, A. D., jt. author, 389.
—. See also Turner, A. W., jt. author, 41.
Roemmele, 326.
Roepke, M. H. See Boyd, W. L., et al., jt. authors, 389.
Rogers, E. E. See Parman, D. C., et al., jt. authors, 306.
Rogers, H. J., 305.
Rogers, K. B., 209.
Rollins, H. J., 68.
Romboli, B., 19.
Romijn, C. See Roos, J., jt. author, 445.
Ronzhina, G. I., 227.
Roos, J., & Romijn, C., 445.
van Rooyen, S. E. See Havens, W. P., et al., jt. authors, 302.
Ropes, M. W. See Smith, W. E., jt. author, 184.
de Ropp, R. S., 135, 341.
—. See also Edwards, S. J., et al., jt. authors, 341.
Rosa, A., 38.
—. See also Neri, F., jt. author, 82.
Rose, D. L. See Gottschall, R. Y., et al., jt. authors, 266.
Rose, F. L. See Madinaveitia, J., et al., jt. authors, 119.
—. See also Martin, A. R., jt. author, 119.
Rose, H. M., See Culbertson, J. T., et al., jt. authors, 375.
Rosebury, T., 136.
Roseman, S. See Overman, R. S., et al., jt. authors, 368.
Rosenberger, G., 166, 412.
Rosenblatt, P. See Alture-Werber, E., et al., jt. authors, 340.
Rosenbusch, F., & Gelormini, N., 289.
Rosenow, E. C., 161, 253, 326.
Ross, C. A., & Poth, E. J., 279.
—. See also Poth, E. J., jt. author, 371, *bis*.
Ross, O. B., Phillips, P. H., Bohstedt, G., & Cunha, T. J., 234.
—. See also Cunha, T. J., et al., jt. authors, 234.
Rossi, F. A., & Campion, R. L., 298.
Rossi, M. See Battelli, C., et al., jt. authors, 344.
Rossner, E., 411.
Roth, H., 153.
Roth, P. See Dechambre, E., et al., jt. authors, 97.
Rothbard, S., 385.
Rothen, A., 434.
Rottgardt, A. A., 408.
Rouatt, J. W. See Timonin, M. I., jt. author, 167.
Roubaud, E., & Provost, A., 98.
Rous, P., & Smith, W. E., 194.
Rouyer, M., 47.

Rowland, W. T. See White, R. G., jt. author, 312.
Rowlands, I. W., 198, 274.
—. See also Buckland, F. E., et al., jt. authors, 150.
Rowlands, W. T., 231.
—, & Field, H. I., 131.
Rowold, B., 132.
Roy, D. N., & Ghosh, S. M., 28.
Roy, R. N. See Basu, P. N., jt. author, 435.
Rozanov, N. I. See Solomkin, P. S., jt. author, 256.
Rubarth, S., & Agrell, I. M., 284.
Rubbo, S. D. See Albert, A., et al., jt. authors, 120.
Rubenstein, A. D. See Getting, V. A., et al., jt. authors, 31.
Rumsey, C. C., Jr. See Eckman, M., et al., jt. authors, 417.
Rushchits, A. S., 59.
Rushmore, R. W., 140.
Rusoff, I. I. See Wood, H. G., jt. author, 123.
Rusoff, L. L. See Piercy, P. L., jt. author, 449.
Russell, F. C., 111.
Russell, J. A., 79.
Russo, 61.
Lo Russo, R., 256.
Rustigian, R., & Stuart, C. A., 39.
—. See also Stuart, C. A., et al., jt. authors, 39.
Ruys, A. C., 422.
Ryazanov, 89.
Ryff, J. F., & Lee, A. M., 294.

S

Sachville, J. P. See Bowstead, J. E., et al., jt. authors, 312, *bis*.
Sackett, M. F. See Levine, M. I., jt. author, 422.
Sadiq, N., 401.
Sadusk, J. F., Jr. See Blake, F. G., et al., jt. authors, 70.
Sahyun, M., 383.
Salikov, M. I., 25.
Salisbury, G. W., & Mercier, E., 80.
—, & Vandemark, N. L., 407.
—, Zelaya, J. A., & VanDemark, N. L., 115.
Salk, J. E., Menke, W. J., Jr., & Francis, T., Jr., 143.
Salle, A. J., 324.
—, & Jann, G. J., 450.
Salt, F. D., 367.
Salter, W. T., 79.
Samartsev, A. A., 27.
Samper, B., & Lleras, A. S., 45.
Samper, B. A. See Finland, M., et al., jt. authors, 100, 101, *ter*.
Sanders, A. G., 244.
—. See also Florey, H. W., et al., jt. authors, 242, 409.
Sanders, D. A., 1.
Sanders, D. W., Weatherwax, P., & McClung, L. S., 166.
Sandground, J. H., 169.
—, & Hamilton, C. R., 169.
Saphir, O. See Lev, M., jt. author, 277.
Sapirstein, L. A., Reed, R. K., & Page, E. W., 435.
Sapre, S. N., 14, 47.
van der Sar, A., & Hartz, H., 153.
Sarwar, M. M., 73, *bis*.
Satterfield, G. H., Clegg, R. E., & Holmes, A. D., 234.
Saunders, T. S., 227.
Savage, W., 379.
Savel'ev, G. S., 83, 331.
Savino, E., & Rennella, E., 297, *bis*.
Savit, J. See Tobias, J. M., et al., jt. authors, 449.
Sawyer, C. S. See Moore, F. D., et al., jt. authors, 214.
Sawyer, W. A., Meyer, K. F., Eaton, M. D., Bauer, J. H., Putnam, P., & Schwentker, F. F., 11.
Scaricaciottoli, T. M. See Herbut, P. A., jt. author, 200.
Schaaf, J., 137, 205, *bis*.
Schad, 214.
Schaefer, H., 321.
Schaible, P. J., Burmester, B. R., Sykes, J. F., & Thorp, F., Jr., 108.
Schalm, O. W., 95, 423.
Schamschula, A., 2.
Schang, P. J., 301.
—, & Aramendi, M. C., 200.
Schatz, A., & Waksman, S. A., 319.
—. See also Reilly, H. C., et al., jt. authors, 168.
Schellhase, 30, 168.
Schiller, A. A., Struck, H. C., & Reed, C. I., 234.
Schilling, C., 185.
Schinz, H. R., 153.
Schjelderup, H. See Birkhaug, K., jt. author, 291, 337.
Schloemer, H. F., Maher, F. T., & Wirth, E. H., 319.
Schlotthauer, C. F., 70, 400.
Schmid, F. 328.
Schmidt, E. C. H. See Helwig, F. C., jt. author, 150.
Schmidt, H. W., 152.
Schmidt, W. H. See Benedict, R. G., et al., jt. authors, 118.
Schmith, K., 243.
Schneider, H. A., & Webster, L. T., 135.
Schneider, L., & Szakmáry, G., 339.
Schneider, M. D., 284.
Schneider, R., 251, *bis*.
Schnelle, G. B., 203.
—, & Jones, T. C., 308.
—, Roby, T. O., Young, R. M., & Jones, T. C., 436.
—, & Young, R. M., 17.
Schoebe, W. See Schützler, G., jt. author, 247.
Schönberg, 15.
Schönberg, F., 123, 457.
Schoening, H. W., 35.
—, & Crawford, A. B., 219.
Schofield, F. W., 64, 91, *bis*.
Schoop, 401.
Schoop, G., 411.
—, & Ohe, H., 411.
Schott, R. G. See Frank, A. H., et al., jt. authors, 116.
Schour, I., & Massler, M., 196.
Schroeder, M. P. See Nutini, L. G., et al., jt. authors, 185.
Schubmehl, Q. D. See Warren, C. O., et al., jt. authors, 20.
Schürmann, E., 281.
Schützler, G., & Pernitzsch, G., 444.
—, & Schoebe, W., 247.
Schull, F. W. See Madden, S. C., et al., jt. authors, 20.
Schult, J. H., 289.
Schultz, W., 227.
Schulz-Utermöhl, H., 136.
Schumacker, H. B., Jr., & Bethea, W. R., Jr., 207.
Schumakovich, E. E., 16.
Schwanner, E., 219.
Schwartz, B., 35, 226.
Schwartzman, G., 243, *bis*.
Schweigert, B. S., McIntire, J. M., Henderson, L. M., & Elvehjem, C. A., 443.
Schweinburg, F. B., & Yetwin, I. J., 57, 204.
Schwentker, F. F. See Sawyer, W. A., et al., jt. authors, 11.
Scorgie, N. J., 157.
Scott, A. A. B. See Robson, J. M., jt. author, 1.
Scott, M. I. R. See Lee, D. H. K., et al., jt. authors, 274.
Scott, P. See Fisher, J. W., jt. author, 310.
Sears, H. J., 424.
Seath, D. M., Branton, C., & Groth, A. H., 159.
Sebrell, W. H. See Daft, F. S., et al., jt. authors, 361.
—. See also Kornberg, A., et al., jt. authors, 207.
Seddon, H. J. See Gardner, A. D., jt. author, 414.
Seddon, H. R., 199.
Seelemann, M., 388.
—, & Hinderer, G., 294.
—, & Meyer, A., 293.
Seeler, A. O., & Ott, W. H., 6.
Seeley, H. W., Jr., Anderson, E. O., & Plastridge, W. N., 289, 386.
—, —, —, & Pearson, P., 280.
Seghetti, L., & Marsh, H., 124.
Seibold, H. R., 294.
Seiferle, E., 317.
Seifter, J., 118.
Seit, B., & Jørgensen, K. L., 183.
Selbie, F. R., 430.
—. See also McIntosh, J., et al., jt. authors, 59.
Selter, H., 254.
Semenov, M. A., & Kozlova, E. S., 146, *bis*.
Sen, K. C., 196.
—. See also Kehar, N. D., et al., jt. authors, 197, *bis*.
Sen, S. K., & Minett, F. C., 213.
de Senarclens, F., 229.
Sendroy, J., Jr., 79.
Senior, B. J. See Sheehy, E. J., et al., jt. authors, 442.
Senior-White, R., 192.
Senterac, P. See Darraspen, E., et al., jt. authors, 356.
Sergent, Ed., 62, 382.
Sevag, M. G., & Green, M. N., 119.
—, Henry, J., & Richardson, R. A., 167.
—, Shelburne, M., & Mudd, S., 167.
Severao, M. See Ralziss, G. W., et al., jt. authors, 26.
Severens, J. M., Roberts, E., & Card, L. E., 40, 243.
Sewell, R. L. See Favata, B. V., et al., jt. authors, 215.
Sexton, W. A. See Haddow, A., jt. author, 413.
Sforza, M., 289, 290, *bis*.
Shahan, M. S., 430.
—, & Giltner, L. T., 299.
Shank, R. E. See Hoagland, C. L., et al., jt. authors, 109.
Shapiro, G. L., & Kozlov, P. G., 459.
Shapiro, R. L. See Flett, L. H., et al., jt. authors, 343.
Sharabrin, I. G., 197, 311.
Sharp, D. G., Taylor, A. R., McLean, I. W., Jr., Beard, D., & Beard, J. W., 220.
—. See also Beard, J. W., et al., jt. authors, 142.
—. See also McLean, I. W., Jr., et al., jt. authors, 99, 142.
—. See also Taylor, A. R., et al., jt. authors, 142.
Sharpless, N. E. See Fairhall, L. T., et al., jt. authors, 240.
Shaughnessy, H. J. See Levinson, S. O., et al., jt. authors, 209.
Shaw, J. C. See Kaufmann, O. W., jt. author, 158.
Shaw, J. N., 412.
Shear, M. J. See Brues, A. M., jt. author, 398.
—. See also Topping, N. H., et al., jt. authors, 394.
Shearer, G. D., 449.
Sheehan, J. F., & Bruner, J. A., 331.
Sheehy, E. J., 359.
—, Senior, B. J., & Burke, E. M., 442.
Sheehy, J. J. See Gunn, F. D., et al., jt. authors, 422.
Shelburne, M. See Sevag, M. G., et al., jt. authors, 167.
Sheline, G. E., Chaikoff, I. L., Jones, H. B. & Montgomery, M. L., 22.
Sheng, T. S. See Chu, H. P., jt. author, 410.
Shepard, C. C., 305.
—. See also Gunn, F. D., et al., jt. authors, 387.
—. See also Topping, N. H., et al., jt. authors, 394.
Shepherd, M. A. See Buckland, F. E., et al., jt. authors, 150.
Sher, B. C., & Kloeck, J. M., 370.
—. See also Sweany, H. C., et al., jt. authors, 370.
Shergin, N. P., & Nesmeyanova, T. N., 317.
—. See also Glembotskiĭ, Y. L., et al., jt. authors, 317.
—. See also Milovanov, V. K., jt. author, 316.
Sherstoboev, K. N., 121.
Shevchenko, N. A., 239.
Shier, F. L. See Underwood, E. J., et al., jt. authors, 79.
Shigley, J. F. See Thorp, W. T. S., et al., jt. authors, 124, 206.

Shillinger, J. E., 103.
Shimkin, M. B., 230.
Shirley, D. A., 28.
Shive, W. See Snell, E. E., jt. author, 216.
Shluger, E. G. See Chumakov, M. P., et al., jt. authors, 300.
Shmanenkov, N. A., 221.
Shnell', K. N., 55.
Shope, R. E., & Griffiths, H. J., 262.
—, —, & Jenkins, D. L., 261.
—, Maurer, F. D., Jenkins, D. L., Griffiths, H. J., & Baker, J. A., 261.
—. See also Jenkins, D. L., jt. author, [illegible]
—. See also Maurer, F. D., et al., jt. authors.
—. See also Walker, R. V. L., et al., jt. authors, 261.
Short, W. F. See Coulthard, C. E., et al., jt. authors, 119.
Shrewsbury, C. L., Hatfield, J. D., Doyle, L. P., & Andrews, F. N., 278.
Shrivastava, D. L. See Bhatnagar, S. S., jt. author, 434.
Shtefko, V. G., & Rabinovich, E. A., 290.
Shulyumova, E. S., 51.
Shwartzman, G., 320.
Siddiqi, T. A., 222.
Siebenmann, C. O., & Plummer, H., 120.
Siedel, F., 375.
Sifferlen. See Troisier, J., et al., jt. authors, 352.
Sigel, M. M., 299.
Sigurdsson, B., 181.
Silber, H. See Trautmann, A., jt. author, 239.
Silber, R. H. See Molitor, H., et al., jt. authors, 372.
—. See also Robinson, H. J., et al., jt. authors, 372.
Silberstein, W. See Braun, H., jt. author, 295.
Silva Leitão, J., 218.
da Silva Leitão, J. L., 7.
Silverberg, R. J. See Faber, H. K., jt. author, 432.
Silverman, M. See Taliaferro, L. G., et al., jt. authors, 82.
Simeone, D. H. See Monteverde, J. J., jt. authors, 185, 340.
Simmons, J. S., & Gentzkow, C. J., 420.
Simmons, S. W., & Dove, W. E., 29.
Simmons, V. L. See Frank, A. H., et al., jt. authors, 116.
Simonds, J. P., & Hepler, O. E., 76.
—. See also Hepler, O. E., et al., jt. authors, 76.
Simpson, M. E., See Becks, H., et al., jt. authors, 116, 117.
Simpson, S. L. See Dodds, E. C., et al., jt. authors, 246.
Simpson, W. M. See Gottschall, R. Y., et al., jt. authors, 266.
Sinclair, R. D. See Bowstead, J. E., et al., jt. authors, 312, *bis*.
Singer, E., 190.
—. See also Petherick, M. H., jt. author, 150.
Singh, B., & Gupte, D. J., 49.
Singh, J., & Bhattacharji, L. M., 209.
Singh, K. See Nanda, P. N., jt. author, 38.
Sisk, B. H., 30.
Sisson, R. G. See Platt, W. R., et al., jt. authors, 418.
Sjöberg, K., 235.
—. See also Akerblom, E., jt. author, 270.
Sjolte, I. P., 357, 399.
Skatkin, P. N. See Parashutin, G. V., jt. author, 163.
Skibsted, S., 140.
Skidmore, D. I., 36.
Skrimshire, G. E. H. See Coulthard, C. E., et al., jt. authors, 119.
Skrynnik, A. N. See Pavlovskii, E. N., jt. author, 307.
Skydsgaard, H., 271.
Slade, R., 282.
Slanetz, L. W., & Allen, F. E., 120.
Slastnikov, I. F., 4.
Sloan, J. E. N. See Morgan, D. O., jt. author, 192.
Slocock, S. L., 208.
Smillie, W. G. See Magill, T. P., et al., jt. authors, 143.
Smirnov-Ugryumov, D. V., 236, 238.
Smith, A. H. See Burn, C. G., et al., jt. authors, 51.
Smith, C. E. See Cobbett, N. G., jt. author, 282.
Smith, D. G., Robinson, H. J., & Clark, D. M., 372.
—. See also Emerson, G. A., jt. author, 372.
Smith, D. J. W., 190.
Smith, F. See Bittner, J. J., et al., jt. authors, 230.
Smith, H. C., & Howell, D. E., 43 169.
—. See also Koen, J. S., jt. author, 117.
Smith, H. R., 181, 389.
Smith, H. W. See Field, H. I., jt. author, 179, 254.
Smith, J. A. B., 275.
Smith, J. H. C. See Luck, J. M., jt. author, 79.
Smith, M. G., Blattner, R. J., & Heys, F. M., 45.
Smith, M. I., Jackson, E. L., & McClosky, W. T., 452.
—, & McClosky, W. T., 121, *bis*.
—. See also Lillie, R. D., jt. author, 118.
—. See also McClosky, W. T., jt. author, 449.
Smith, M. M. See Smith, W., jt. author, 57.
Smith, P. E., 366.
Smith, R. B., Jr. See Draize, J. H., et al., jt. authors, 241.
—. See also Nelson, A. A., et al., jt. authors, 25.
Smith, S. E., & Larson, E. J., 448.
—, & Medlicott, M., 20.
—, —, & Ellis, G. H., 20, *bis*.
—. See also Bassett, C. F., et al., jt. authors, 442.
Smith, V. R., & Petersen, W. E., 275.
Smith, W., & Smith, M. M., 57.
—. See also Hale, J. H., jt. author, 427.
Smith, W. E., & Ropes, M. W., 184.
—. See also Rous, P., jt. author, 194.
Smolens, J. See Halbert, S. P., et al., jt. authors, 191.
Smyth, J. A. See Allison, V. D., jt. author, 87.
Smyth, J. D. See Hill, G. R., jt. author, 17.
Smythe, V. R., 415.
Snapper, I., 60.
Snell, E. E., & Shive, W., 216.
Snow, D., 249.
—, & Watts, P. S., 249.
Snyders, S. L., 240.
Sobel, A. E., Rockenmacher, M., & Kramer, B., 53.
Soboleva, N. I., 323, *bis*.
Sofia, F., 257.
Sokolovskaya, I. I., 237.
Soldatova, A. P., 353.
Soldner, P. A. See Sutton, T. S., jt. author, 359.
Solomidès, J., 408.
Solomkin, P. S., & Rozanov, N. I., 256.
Solovei, M. Y., 237, 316.
—, & Gerasimova, A. A., 237.
Solovieff, P., 298.
Solowey, M. See Winter, A. R., et al., jt. author, 458.
Solun, 78.
Sommer, H. E., & Stokes, J., Jr., 126.
—. See also Henle, W., et al., jt. authors, 126.
Sopikov, P. M., 214.
Soule, M. H. See Lichstein, H. C., jt. author, 42.
de Sousa, 61.
Southcott, W. H., 362.
de Souza-Araujo, H. C., 214.
Spadaro, O., 258.
Specht, F., 186.
Sperling, F. G. See Live, I., et al., jt. authors, 257.
Spero, L. See Field, J. B., et al., jt. authors, 368.
—. See also Overman, R. S., et al., jt. authors, 368.
Spicer, S. S. See Neal, P. A., et al., jt. authors, 454.
Spiegl, A., 19.
Spies, T. D., Perry, D. J., Cogswell, R. C., & Frommeyer, W. B., 362.
Spira, L., 318.
Spotts, S. D., & Davis, J. B., 170.
Sprent, J. F. A., 353, 374.
Sprick, M. G., & Towey, J. W., 379.
Spriggs, D. N., 109, 234.
Springborg, A., 255.
Squibb, R. L., 77, 283.
Sreenivasan, M. K. See Ware, F., jt. author, 213.
Srinivasan, K. V. See Thomas, K. M., et al., jt. authors, 216.
Stafseth, H. H., 462.
Stafseth, H. J., 94.
Stahmann, M. A. See Overman, R. S., et al., jt. authors, 368.
Standfast, A. F. B. See Coulthard, C. E., et al., jt. authors, 119.
Stanley, N. F. See Atkinson, N., jt. author, 202.
Stanley, W. M., 144.
—. See also Duffy, C. E., jt. author, 300.
Stare, F. J., Hegsted, D. M., & McKibbin, J. M., 79.
—. See also Hegsted, D. M., jt. author, 404.
—. See also McKibbin, J. M., et al., jt. authors, 443.
Staub, A. M., & Grabar, P., 421.
Stavitsky, A. B., 427.
—, & Green, R. G., 261.
Steel, J. D. See Blood, D. C., jt. author, 318.
Steele-Bodger, H. W., 415.
Steevenson, G. F., 33.
Steffens, M., 240, 257.
Steigmann, F. See Popper, H., et al., jt. authors, 283.
Stein, C. D., 386.
—. See also Mott, L. O., et al., jt. authors, 411.
Steinberg, B., & Martin, R. A., 311.
Steiner, G., & Steiner, Gr., 210.
Steiner, Gr. See Steiner, G., jt. author, 210.
Steiniger, F., 440.
Stemmermann, M. G., & Stern, A., 338.
Stephan, J., 64.
Stern, A. See Stemmermann, M. G., jt. author, 338.
Sterne, M., 254.
Stevenson, E. C., & Mitchell, J. W., 120.
Steveson, L., 91.
Stevenson, W. G., 163.
Steward, J. S., 415.
Stewart, D. F., 253.
—. See also Hindmarsh, W. L., et al., jt. authors, 42.
Stewart, D. L., 157.
Stewart, G. F. See Winter, A. R., et al., jt. authors, 458.
Stewart, G. T., 121.
Stewart, H. A., 162.
Stewart, J., Farmer, V. C., & Mitchell, R. L., 302.
Stewart, J. D., 180.
Stewart, J. L., 177, 287.
Stewart, M. A., 28.
Steyn, D. G., 318.
—, & van der Walt, S. J., 368.
—. See also van der Walt, S. J., jt. author, 368, 369.
Steyn, H. P., 229.
Stickney, J. C. See van Liere, E. J., et al., jt. authors, 317.
Stiles, G. W., 426.
Stiles, W. W., 67.
Stokes, J., Jr., 13.
—. See also Henle, W., et al., jt. authors, 126.
—. See also Sommer, H. E., jt. author, 126.
Stokes, J. M. See Stowell, R. E., jt. author, 285.
Stoll, N. R. See Franks, M. B., jt. author, 209.
Stolz, A., 173.
Stone, E. R. See MacLeod, C. M., jt. author, 410.
Stone, J. D. See Albert, A., et al., jt. authors, 120.
—. See also Beveridge, W. I. B., et al., jt. authors, 142.
—. See also Burnet, F. M., jt. author, 187, 188, 220.

Stone, M. B. See Finland, M., et al., jt. authors, 100, 101, *bis*.
Stoner, H. B., & Green, H. N., 108.
Stormont, C. J. See Owen, R. D., et al., jt. authors, 55.
Stott, W., & Harris, C. C., 112.
Stowell, R. E., & Stokes, J. M., 285.
Strandskov, F. B. See Marks, H. C., et al., jt. authors, 126.
—. See also Wyss, O., jt. author, 59.
van Stratum, E. See Stuart, C. A., et al., jt. authors, 39.
Streich, W. See Cohrs, P., jt. author, 133.
Strelitz, F. See Asheshov, I. N., jt. author, 321.
Strickland, E. H., 286.
Strogov, A. K., 285.
Struck, H. C. See Schiller, A. A., et al., jt. authors, 234.
Stuart, C. A., van Stratum, E., & Rustigian, R., 39.
—. See also Rustigian, R., jt. author, 39.
Stuart-Harris, C. H., Carmichael, J., Lewthwaite, R., Fulton, F., Felix, A., Fox, L. A., Longley, E. O., & Hole, N., 101.
Stuart, H. O. See Cunningham, C. H., jt. author, 127.
Stuart, R. D. See Buckland, F. E., jt. author, 186.
Stubbs, E. L. See Live, I., et al., jt. authors, 257, *bis*.
Stura, C. A., 249, 377.
Sturkie, P. D., & Williams, A. G., 316.
Suessenguth, H., & Kline, B. S., 128.
Sugg, J. Y. See Magill, T. P., et al., jt. authors, 143.
Suksta, A. See Cartwright, G. E., et al., jt. authors, 444.
Sulkin, S. E., 10, 187.
—, & Goth, A., 322.
Sullivan, W. R., Gangstad, E. O., & Link, K. P., 368.
—. See also Overman, R. S., et al., jt. authors, 368.
Sunderville, E. J. See Pounden, W. D., et al., jt. authors, 172.
Supplee, G. C., Caul, J. F., Gall, L. S., Prill, E. A., Babcock, L. C., & Nohle, E. G., 110.
—, Gall, L. S., Caul, J. F., Babcock, L. C., & Nohle, E. G., 110.
Sure, B., 361, *bis*.
Surgalla, M., & Dack, G. M., 327.
Suter, C. M. See Cavallito, C. J., et al., jt. authors, 243.
Sutherland, A. K., 39.
Sutton, G. D., 251, 400.
Sutton, T. S., & Soldner, P. A., 359.
Swain, G. See Madinaveitia, J., et al., jt. authors, 119.
Swales, W. E., 246, 373.
Sweany, H. C., Sher, B. C., & Kloeck, J. M., 370.
Sweeney, T. R. See Neal, P. A., et al., jt. authors, 454.
Swift, W. E. See Nauts, H. C., et al., jt. authors, 376.
Swingle, W. W., & Remington, J. W., 55.
Sykes, G. See Coulthard, C. E., et al., jt. authors, 119.
Sykes, J. F. See Schaible, P. J., et al., jt. authors, 108.
Szagó, B., 387.
Szakmáry, G. See Schneider, L., jt. author, 339.
Szepeshelyi, A. See Hetzel, H., jt. author, 260.

T

Tainter, M. L. See Cavallito, C. J., et al., jt. authors, 243.
Takhistov, B. A., 192.
Talbot, R. J. de C., 342.
Taliaferro, L. G., Coulston, F., & Silverman, M., 82.
—. See also Taliaferro, W. H., jt. author, 260.
Taliaferro, W. H., & Taliaferro, L. G., 260.
Tan, V. N., 174.
Tanner, F. W. See Wilson, F. L., jt. author, 84.
Tarasov, V. R., 308.
Tash, L. H. See Black, W. H., et al., jt. authors, 270.
Tasman, A., & Pondman, A. B. F. A., 215.
Tatlock, H., 394.
Tatum, A. L. See Gajewski, J. E., jt. author, 6.
Taylor, A. R., Sharp, D. G., McLean, I. W., Jr., Beard, D., & Beard, J. W., 142.
—. See also Beard, J. W., et al., jt. authors, 142.
—. See also McLean, I. W., Jr., et al., jt. authors, 99, 142.
—. See also Sharp, D. G., et al., jt. authors, 220.
Taylor, A. W., 259.
Taylor, E. L., 205, 225.
Taylor, J. See Bridge, R. F., jt. author, 424.
Tchernomoretz, J. See Adler, S., jt. author, 43.
Teare, D. See Dubash, J., jt. author, 241.
Teixeira, O., 298.
Temperton, H., & Dudley, F. J., 246.
—, —, & Thorn, M. B., 403.
Tenheaff, C., & Ferwerda, S., 15.
Teorell, T., 303.
Teply, L. J. See Krehl, W. A., et al., jt. authors, 443.
Teresi, J. D., Hove, E., Elvehjem, C. A., & Hart, E. B., 159.
Terrence, J. See Baker, J. A., et al., jt. authors, 262.
Thaning, T. See Jorpes, E., jt. author, 191.
Thapar, G. S., 14.
Thayer, S. See McKibbin, J. M., et al., jt. authors, 443.
Thayer, S. A. See Hays, E. E., et al., jt. authors, 451.
Theiler, G., 435.
Themann, 173.
Thiery, G. See Drieux, H., jt. author, [illegible].
Thigpen, M. See Rickard, E. R., et al., jt. authors, 143.
Thom, C., 372.
Thomas, A. D., & Maré, C. v. E., 222.
—, & Reid, N. R., 147.
Thomas, A. R., Jr., & Levine, M., 168.
Thomas, B. A., Lennox, M., & Duncan, J. T., 269.
Thomas, H. See Parr, L. W., jt. author, 134.
Thomas, I. A. See Paterson, E., et al., jt. authors, 376.
Thomas, J. F. H., et al., 212.
Thomas, K. M., Ramakrishnan, T. S., & Srinivasan, K. V., 216.
Thomas, S. B., & Bowie, D. A., 30.
Thompson, J. N., & Delaplane, J. P., 124.
Thomson, G. R. See Lominski, I., jt. author, 251.
Thomson, J. S. See Leitch, I., jt. author, 52.
Thoonen, J. See Geurden, L., et al., jt. authors, 215.
Thorn, M. B. See Temperton, H., et al., jt. authors, 403.
Thornton, H. K. See Burkholder, P. R., et al., jt. authors, 202.
Thorp, F., Jr. See Schaible, P. J., et al., jt. authors, 108.
Thorp, R. H. See Glock, G. E., et al., jt. authors, 241.
Thorp, W. T. S., Henning, W. L., & Shigley, J. F., 124, 206.
Tice, J. W., Tisdall, F. F., & McCreary, J. F., 248.
Tikhomirov, N. P. See Chernov, V. N., jt. author, 103.
Timonin, M. I., & Rouatt, J. W., 167, 242.
Tippett, L. H. G., 178.
Tippett, S. G., 213.
Tisdall, F. F. See Tice, J. W., et al., jt. authors, 248.
Tissier. See Ramon, G., et al., jt. authors, 347.
Titus, H. W. See Bird, H. R., et al., jt. authors, 313.
Tkachenko, A. F., 23.
Tobias, J. M., Kollros, J. J., & Savit, J., 449.
Tobie, W. C., 39.
Todd, E. W., 81, 242.
—, Turner, G. S., & Drew, L. G. W., 119.
Todd, W. C., 172.
du Toit, R. M., 348.
Tokin, B., 322.
Tolley, H. R., 175.
Tomlinson, A. J. H., 170.
Tompsett, S. L. See Brown, A., jt. author, 240.
Tønnesen, J., 26.
Toop, C. R., 342.
Topley, E., 377.
Topolnik, E., 348.
Topping, N. H., 225.
—, Bengtson, I. A., Henderson, R. G., Shepard, C. C., & Shear, M. J., 394.
Toroptsev, I. V., & Filatova, A. G., 322.
Torregrosa, M. V. See Oliver-González, J., jt. author, 14.
Torres, C. M., 230, 233.
Toumanoff, C., 102.
Tovarnizky, V. I., & Chalkina, O. M., 299.
Tovey, G. H., 72.
Towey, J. W. See Sprick, M. G., jt. author, 379.
Townsend, C. H. S., 33.
Traub, E., 265, *bis*.
Traub, E. F., Newhall, C. A., & Fuller, J. R., 170.
Trautmann, A., 23.
—, & Silber, H., 239.
Travassos, J., & Biocca, E., 375.
Trembley, H. L. See Coatney, G. R., et al., jt. authors, 186.
Trenwith, V. See Cameron, G. R., et al., jt. authors, 439.
Trethewie, E. R., 195.
Trikojus, V. M. See Wright, L. E. A., et al., jt. authors, 199.
Trimberger, G. W., & Davis, H. P., 445.
Troell, L. See Borell, U., jt. author, 167.
Troisier, J., Sifferlen, & Maclouf, A. C., 382.
Troitskii, I. A., 54.
—. See also Kudryashov, M. V., jt. author, 145.
Tropa, E., 261.
Trout, G. M., & Horwood, R. E., 457.
Trowbridge, M., Jr., 417.
Trufant, S. A., 257.
Tschumi, H. See Krupski, A., et al., jt. authors, 19.
Tsvetaeva, N. P., 154.
Tunkl, B. See Gansimayer, R., jt. author, 58.
Turbet, C. R., 61.
Turk, R. D., 104.
Turkel, H., & Bethell, F. H., 329.
Turner, A. W., 183.
—, & Eales, C. E., 389.
—, & Rodwell, A. W., 41.
Turner, G. S. See Todd, E. W., et al., jt. authors, 119.
Turner, R. G., 14.
Tutton, E. A., 392.
Twiehaus, M. J. See Pepler, H. J., jt. author, 184.
Twombly, G. H., & Meisel, D., 309.
Tyler, C., 441, 442.

U

Ubach, F. A., & Cler, G. O., 311.
Ubatuba, F., & Vierira, G., 244.
Uberbreiter, O., 155.
Uehlinger, E. See Krupski, A., et al., jt. authors, 19, 77.
Ugolini, M., 79.
Uihlein, A., Clagett, O. T., Osterberg, A. E., & Bennett, W. A., 174.
Ullmann, E., 390.
Ulm, K., 153.
Ulrich, H. See Krupski, A., et al., jt. authors, 77, *bis*, 270.
Underwood, E. J., & Conachie, J., 402.
—, & Curnow, D. H., 403.
—, —, & Shier, F. L., 79.
Ungar, G., 446.
Unger, L. J., & Wiener, A. S., 114.

Urbain, A., 64.
—, & Nouvel, J., 15.
—, —, & Bullier, P., 96.
Utter, M. F. See Kalnitsky, G., et al., jt. authors, 173.

V

Vaccarezza, R. F., & Arena, A. R., 255.
Vakil, R. J., 216.
Valdiguié, P. See de Boissezon, P., jt. author, 24.
Valente, J. S., 254, 337.
Valko, E. I., & DuBois, A. S., 376.
do Valle, J. R. See Martins, T., jt. author, 315.
Vallée, M., 339, 373.
Vallette, A. See Gounelle, H., et al., jt. authors, 361.
Vancheswaran, S., 222.
Vandemark, N. L., See Salisbury, G. W., jt. author, 407.
—. See also Salisbury, G. W., et al., jt. authors, 115.
Vanderplank, F. L. See Jackson, C. H. N., jt. author, 114.
Varela, G., & Zozaya, J., 327.
Vasseur, M. See Drieux, H., et al., jt. authors, 193.
Vau, E., 367.
Vaughn, R. H. See Gililland, J. R., jt. author, 40.
Vavich, M. G., Dutcher, R. A., Guerrant, N. B., & Bechdel, S. I., 362.
Vaz, Z., Pereira, R. S., & Malheiro, D. M., 59.
Vecchi-Finzi, G., 222.
Veenendaal, H., & Winsser, J., 447.
—. See also Beuvery-Asman, A., et al., jt. authors, 452.
Veer, W. L. G., & Gaillard, P. J., 22.
Veeraraghavan, N., 261.
Veilleux, J. M., 181.
Veller, A., 155.
Verge, 261.
Verge, J., Drieux, H., & Quarante, M., 259.
Verwey, W. F., See Beyer, K. H., et al., jt. authors, 26, *bis*.
Viala, C. See Cruveilhier, L., jt. author, 44.
Vickery, H. B., 406.
Victor, J., & Pappenheimer, A. M., 361.
Videla, P. H. B., 407.
Vieira, G. See Ubatuba, F., jt. author, 244.
Viljoen, J. H. B. See Wheeler, W. J., et al., jt. authors, 231.
Viljoen, P. R., 61.
Vil'yams, V. V. See Badanin, N. V., jt. author, 29.
Vinattieri, E., Hayward, A. H. S., & Artioli, D., 75.
Vincent, J. G. See Favata, B. V., et al., jt. authors, 215.
Viollier, G., 225.
Virat, B. See Nicol, L., jt. author, 27.
—. See also Ramon, G., et al., jt. authors, 187.
Virat, J. See Ramon, G., et al., jt. authors, 187.
Virviescas, F., & Moreno Fernandez, R., 401.
Visger, E. E. See Bryan, C. S., et al., jt. authors, 369.
Visscher, M. B. See Barnum, C. P., et al., jt. authors, 230.
—. See also Bittner, J. J., et al., jt. authors, 230.
Viswanathan, G. R., 5.
Vitello, M., 28.
Vladutiu, O. See Bressou, C., jt. author, 447.
Vöhringer, K., 247.
Völker, E., 154.
Völker, R., & Barke, A., 32.
Vogt, L., 387.
Volavsek, E., 15.
Volk, B. W. See Popper, H., et al., jt. authors, 283.
Volker, J. F. See Ginn, J. T., jt. author, 359.
Volkova, Z. M. See Zelevinskaya, S. A., et al., jt. authors, 258.
Vollmann, R., & Vollmann, U., 407.
Vollmann, U. See Vollman, R., jt. author, 407.
Voloskova, A. P., 238.
Vuillaume, R., 78, 437.

W

Wachstein, M., 49, 315.
Waddington, F. G., 100.
Wade, N. J. See Hays, E. E., et al., jt. authors, 451.
Wade, T. E., 251.
Wagner, J. R., & Elvehjem, C. A., 402.
Wagner, O., 397.
Wakeley, C. P. G., & Blum, G., 26.
Wakim, K. G., 315.
Waksman, S. A., 383.
—. See also Jones, D., et al., jt. authors, 123.
—. See also Reilly, H. C., et al., jt. authors, 168.
—. See also Schatz, A., jt. author, 319.
Walbum, L. E., 368.
Waletzky, E. See Brackett, S., et al., jt. authors, 123.
Walker, A. C. See Marshak, A., jt. author, 455.
Walker, D. W., 149.
Walker, J. See Evans, D. G., et al., jt. authors, 121.
Walker, J. M., & Hamilton, J. W., 204.
Walker, K., 286.
Walker, R. V. L., Baker, J. A., & Jenkins, D. L., 261.
—, Griffiths, H. J., Shope, R. E., Maurer, F. D., & Jenkins, D. L., 261.
—. See also Hale, M. W., jt. author, 262.
—. See also Hale, M. W., et al., jt. authors, 262.
—. See also Jenkins, D. L., jt. author, 262.
—. See also Maurer, F. D., et al., jt. authors, 262.
Walker, W. W. See Wood, F. W., et al., jt. authors, 148.
Walls, L. P., Browning, C. H., Calver, K. M., & Leckie, M. W., 204.
van der Walt, S. J., & Steyn, D. G., 368, 369.
—. See also Steyn, D. G., jt. author, 368.
Walton, A. C. See Wright, W. H., et al., jt. authors, 104.
Walz, 144.
Ward, C. B. See Avery, R. C., jt. author, 452.
—. See also Bush, M. T., et al., jt. authors, 452.
Ward, O. See Dodds, E. C., et al., jt. authors, 246.
Ward, R. See Havens, W. P., Jr., et al., jt. authors, 302.
—. See also Melnick, J. L., et al., jt. authors, 149.
Ware, F., & Sreenivasan, M. K., 213.
Warner, J. N., 331.
Warner, S. G. See Reinhard, M. C., et al., jt. authors, 355.
Warner, W. F. See Cavallito, C. J., et al., jt. authors, 243, 409.
Warner, W. P. See Adamson, J. D., et al., jt. authors, 181.
Warren, C. D., Schubmehl, Q. D., & Wood, I. R., 20.
Warren, D. C., 205.
Warren, F. G. See Olson, C., Jr., jt. author, 60.
Warren, G. H. See Harvey, E. N., et al., jt. authors, 161.
—. See also McElroy, W. D., et al., jt. authors, 161.
Warren, J. See Warren, V. G., et al., jt. authors, 354.
Warren, V. G., Warren, J., & Hunter, G. W., III., 354.
Waters, N. F., 107, 268.
Watkinson, J. M. See Paterson, E., et al., jt. authors, 376.
Watson, D. W. See Craigie, J., et al., jt. authors, 350.
Watson, R. H., 365.
—, & Jarrett, I. G., 330, 365.
Watt, J., & Cummins, S. D., 371.
Wattie, E. See Butterfield, C. T., jt. author, 456.
Watts, P. S. See Snow, D., jt. author, 249.
Way, C., 44.
Weakley, C. E., Jr. See Bird, H. R., et al., jt. authors, 318.
Weatherwax, P. See Sanders, D. W., et al., jt. authors, 166.
Webb, H. B., Irish, O. J., & Lyday, V. I., 32.
Weber, G., 95.
Webster, L. T. See Schneider, H. A., jt. author, 135.
Webster, W., 342.
—. See also Hindmarsh, W. L., et al., jt. authors, 42.
Webster, W. J., 261.
Weddell, G., 447.
Wehr, E. E., & Allen, R. W., 15.
—, & Farr, M. M., 373.
—. See also Farr, M. M., jt. author, 373.
Weighton, C., 166.
Weiler, H. See Güldenhaupt, G., jt. author, 364.
Weineck, E., 431.
Weinman, D. See Augustine, D. L., et al., jt. authors, 57.
Weir, J. M., 187.
Weirether, F. J. See Andberg, W. G., jt. author, 2.
Weischer, F., 153.
Weiser, R. S., & Osterud, C. M., 343.
Weisner, E. S., 93, 94, 462.
Weiss, A. B. See Florman, A. L., jt. author, 128.
Weitz, K., 225.
Welcke, M. See Zittle, C. A., et al., jt. authors, 295.
Weller, E., 215.
Weller, T. H., & Dammin, G. J., 285, 460.
—. See also Dammin, G. J., jt. author, 151.
Wells, I. C. See Hays, E. E., et al., jt. authors, 451.
Wenyon, C. M., 438.
Werkman, C. H. See Kalnitsky, G., et al., jt. authors, 173.
Werner, H. See Kerr, A. B., jt. author, 247.
Wespi-Eggenberger, H., 159.
Wesselmann, R., 237.
West, T. F. See Campbell, G. A., jt. author, 282.
Westerfield, C., & Dimock, W. W., 429.
Westphal, A., & Marschall, F., 43.
Westphal, W., 249.
Weyer, F., & Zumpt, F., 395.
Wheeler, S. M., Ingraham, H. S., Hollaender, A., Lill, N. D., Gershon-Cohen, J., & Brown, E. W., 127.
Wheeler, W. J., Viljoen, J. H. B., & Robinson, E. M., 231.
Whipple, G. H. See Madden, S. C., et al., jt. authors, 20.
—. See also Miller, L. L., et al., jt. authors, 113.
—. See also Robscheit-Robbins, F. S., et al., jt. authors, 197.
White, A. See Dougherty, T. F., jt. author, 55, 164.
—. See also Dougherty, T. F., et al., jt. authors, 433.
White, F. R., 116.
White, R. G., & Rowlands, W. T., 312.
Whitehead, J. O. See Rifkin, H., et al., jt. authors, 223.
Whiteley, A. H. See Harvey, E. N., et al., jt. authors, 161, *ter*.
—. See also McElroy, W. D., et al., jt. authors, 161.
Whitlock, J. H., 246, 412.
Whitnall, A. B. M. See Omer-Cooper, J., jt. author, 307.
Whitten, L. K., & Batham, E. J., 103.
—, & Lukey, E. J., 308.
Whitten, W. K., 55.
Wickware, A. B., 50, 108.
Wiedemann, E., 276, *bis*.
Wien, R., & Hampton, J. W. F., 202.
—, Harrison, J., Freeman, W. A., & Phillips, G. E., 202.
—. See also Glock, G. E., et al., jt. authors, 241.
Wiener, A. S. See Unger, L. J., jt. author, 114.

Wiener, M., Henle, W., & Henle, G., 429.
Wiesner, B. P. See Barton, M., jt. author, 162, *bis*.
Wight, A. E., 36, 388.
Wilde, J. K. H., & French, M. H., 217.
Wilke, C. F. See Bassett, C. F., et al., jt. authors, 360.
Willcox, R. R. See Findlay, G. M., jt. author, 302.
Willett, E. L. See Alicata, J. E., jt. author, 410.
Williams. See Dodds, E. C., et al., jt. authors, 246.
Williams, A. G. See Sturkie, P. D., jt. author, 316.
Williams, D. E. See Ellis, N. R., et al., jt. authors, 313.
Williams, E. L. See Mattis, P. A., et al., jt. authors, 318.
Williams, O. B. See Wynne, E. S., jt. author, 250.
Williams, R. H., & Bissell, G. W., 246.
Williams, S. E. See Beveridge, W. I. B., et al., jt. authors, 68.
—. See also de Burgh, P., et al., jt. authors, 189.
Willis, R. A., 308.
Willman, J. P., Loosli, J. K., Asdell, S. A., Morrison, F. B., & Olafson, P., 169.
Wills, O. E., 298.
Wilshaw, R. H., 83.
Wilson, D. See Gear, J. H. S., et al., jt. authors, 349.
Wilson, F. L., & Tanner, F. W., 84.
Wilson, J. E., 388.
Wilson, L. T. See Lewis, J. M., jt. author, 313.
Wilson, S. G., 218.
Winkler, A., 28.
Winkler, A. W. See Danowski, T. S., et al., jt. authors, 440.
Winkler, H. J., 364.
Winsser, J. See Veenendaal, H., jt. author, 447.
Winston, R., 453.
Winter, A. R., Stewart, G. F., McFarlane, V. H., & Solowey, M., 458.
Winter, L. B., 191.
Winters, L. M. See Green, W. W., jt. author, 80, 277.
Winton, B., 62.
Wintrobe, H. W. See Follis, R. H., Jr., jt. author, 405.
Wintrobe, M. M. See Cartwright, G. E., et al., jt. authors, 443, 444.
Wirth, E. H. See Schloemer, H. F., et al., jt. authors, 319.
Wise, H. See Loosli, C. G., et al., jt. authors, 458.
—. See also Puck, T. T., et al., jt. authors, 458.
Wishart, D. S., 316.
Wislocki, G. B. See Dempsey, E. W., jt. author, 117, 406.
Witte, J., 113.
Wolf, A. See Cowen, D., jt. author, 297.
—. See also Zain, H., jt. author, 345.
Wolfson, F., 139, *bis*.
Wolkin, J., Goodman, J. I., & Kelley, W. E., 76.
Wolpers, C., & Zwickau, K., 314.
Wong, T., 141.
Wood, E. E. See Huddleson, I. F., et al., jt. authors, 340.
Wood, E. J. F., 460.
Wood, F. W., Casselberry, N. H., & Walker, W. W., 148.
Wood, H. G., & Rusoff, I. I., 123.
Wood, I. R. See Warren, C. O., et al., jt. authors, 20.
Woodard, G. See Draize, J. H., et al., jt. authors, 241.
—. See also Nelson, A. A., et al., jt. authors, 25.
Woodbine, M., 370.
Woodbury, R. A., & Abreu, B. E., 406.
Woodroofe, G. M. See Atkinson, N., et al., jt. authors, 340.
Woodruff, C. E., Kelly, R. G., & Leaming, M. A., 337.
Woodruff, H. B., & Foster, J. W., 166, 450.
—. See also Foster, J. W., jt. author, 450.
—. See also Foster, J. W., et al., jt. authors, 451.
Woods, E. F. See Christie, R., et al., jt. authors, 179.
Woods, R. R. See Madden, S. C., et al., jt. authors, 20.
Woodward, E. See Beyer, K. H., et al., jt. authors, 26, *bis*.
Wooldridge, W. R., 415.
Worden, A. N., 400.
Work, S. D., Jr. See Murphy, W. J., et al., jt. authors, 350.
Worley, G., Jr., & Young, G., 38.
Wormall, A. See Dewey, H. M., jt. author, 453.
Wright, D. See Dodds, E. C., et al., jt. authors, 246.
Wright, G. G., 394.
Wright, J. G., 75.
—, & Arthur, G. H., 137.
Wright, L. E. A., Robinson, A. R., & Trikojus, V. M., 199.
Wright, M. L. See Chase, F. E., jt. author, 349.
Wright, W. D., 212.
Wright, W. H., & Brady, F. J., 16.
—, Jacobs, L., & Walton, A. C., 104.
—, Kerr, K. B., & Jacobs, L., 104.
Wuestenberg, R. W., 249.
Wunderly, C., 276.
Wurm, K., 203.
Wussmann, E., 367.
Wyburn, G. M. See Bacsich, P., jt. author, 116.
Wylie, J. A. H. See Duthie, E. S., jt. author, 250.
Wynne, E. S., & Williams, O. B., 250.
Wyon, P. H., 318.
Wyss, O., & Strandskov, F. B., 59.
—. See also Marks, H. C., et al., jt. authors, 126.
Wyssmann, E., 148.

Y

Yakimov, V. L., 140.
Yamashita, J. See Ito, S., et al., jt. authors, 67.
Yang, F. See Li, F., jt. author, 285.
Yeates, N. T. M. See Lee, D. H. K., et al., jt. authors, 274.
Yegian, D., Budd, V., & Middlebrook, G., 423.
Yeo, R. M. See Gear, J., et al., jt. authors, 349.
Yeoman, E. D. See Bassett, C. F., et al., jt. authors, 442.
Yeoman, F., 89.
Yermolieva, Z., Kaplun, T., & Levitov, M., 279.
Yetwin, I. J. See Schweinburg, F. B., jt. author, 57, 204.
Yeu, F. See Ramon, G., et al., jt. authors, 187.
Yoffey, J. M., & Parnell, J., 276.
Young, F. G. See Fawns, H. T., et al., jt. authors, 52.
—. See also Folley, S. J., jt. author, 52.
—. See also Folley, S. J., et al., jt. authors, 52, 53.
Young, F. W. See Bryan, C. S., jt. author, 453.
—. See also Bryan, C. S., et al., jt. authors, 289, 369.
Young, G. See Worley, G., Jr., jt. author, 38.
Young, J. A. See Bradbury, F. C. S., jt. author, 213.
Young, L. E., & Cumberland, M. C., 349.
Young, R. M. See Schnelle, G. B., jt. author, 17.
—. See also Schnelle, G. B., et al., jt. authors, 436.
Young, V. M. See Felsenfeld, O., jt. author, 388.
Younie, A. R., 215.
Yudkin, J. See Pulvertaft, R. J. V., jt. author, 243.

Z

Zablotskiĭ, T. M., 389.
Zain, H., 138.
—, & Wolf, A., 345.
Zalkind, S. Y., & Beskhlebnov, A. V., 32.
Zamecnik, P. C., Folch, J., & Brewster, L., 426.
Zamenhof, S., 426.
Zanzucchi, A., 74.
Zarrow, M. See Rifkin, H., et al., jt. authors, 223.
Zechner, H., 115.
Zeissig, A., 2.
Zelaya, J. A. See Salisbury, G. W., et al., jt. authors, 115.
Zeldis, L. J., & Alling, E. L., 113.
—, —, McCoord, A. B., & Kulka, J. P., 364.
Zelevinskaya, S. A., & Ebert, M. K., 258.
—, Volkova, Z. M., & Konstantinova, V. I., 258.
Zemskov, M. V., 219.
Zhuravlev, P. M., Kokin, G. A., & Pokrovskaya, M. P., 265.
Zhuravlev, S. F., 322.
Ziegler, H., 447.
Ziegler, P. T. See Pence, J. W., et al., jt. authors, 404.
Zimmerman, E. C., 267.
Zimmerman, G. I. See Harne, O. G., et al., jt. authors, 53.
Zimmermann, A., 235, *bis*.
Zinnemann, K. See Gordon, M., jt. author, 121.
Zittle, C. A., Delvin, H. B., Rodney, G., & Welcke, M., 295.
Zozaya, J. See Varela, G., jt. author, 327.
Zubrilin, 78.
Zucker, L. M. See Zucker, T. F., et al., jt. authors, 404.
Zucker, T. F., Berg, B. N., & Zucker, L. M., 404.
Zumpt, F., 226, 397.
—. See also Weyer, F., jt. author, 395.
Zwemer, R. L. See Kessler, W. R., jt. author, 5.
Zwickau, K. See Wolpers, C., jt. author, 314.

SUBJECT INDEX

The index is constructed fundamentally from the titles of articles, which may not indicate all the points of interest in the abstract or original. Readers should therefore always search the main headings and the "general" sub-headings for points of special interest :—*e.g.* for references to the control of bovine brucellosis, see "*Brucella* Infection, general" and "*Brucella* Infection, in cattle" in addition to "*Brucella* Infection, control." General headings should also be searched for particular parasites. For drug treatment, see under name of condition treated.

A

ABATTOIRS, 418, 461.

ABOMASUS. See Blood, corpuscles [Red]; Immunology, antigens; Technique, general.

ABORTION. Abortion in rabbits by folliculin, 238; immunization, 334.
See also *Brucella* Infection; *S. abortus-equi*; Virus Abortion in Mares.

ABSCESSES. In cattle due to *Corynebact. pyogenes*, 181.

ACAPRIN. *In vitro* action on piroplasms in rinderpest-virulent blood, 146.
See also *Babesia* Infection, treatment.

ACARIASIS. Caused by tropical rat mite, 103.

ACETONEMIA. In dairy cows treated by vitamin A, 30.

ACHONDROPLASIA. Hereditary achondroplasia in rabbits, 233.

ACRIFLAVINE. In bovine mastitis, 37, 92.
See also *Babesia* Infection, treatment.

ACTINOBACILLOSIS. In sheep, 259; and meat inspection, 294.

ACTINOMYCIN, 168.

ACTINOMYCOSIS. Penicillin treatment, 122, 204; bacteriology, 136; and "non-specific stimulus" therapy, 168; penicillin therapy of cervico-facial actinomycosis, 168.

ACTINOMYCES BOVIS. Isolation from fistulous withers and poll evil, 66; means of entry, 259.

ADDERS. Anti-venom for, 72.

ADRENAL GLAND. Role of cortex in physiological processes, 55; histologic changes in, in tumour-bearing mice, 106; adrenal-gonad relationship, 445.
See also Hormones, general; Immunology, antibodies; Physiology; Spleen; Water.

ADRENALIN. Influence of adrenochrome on migration of bone marrow *in vitro*, 22; effect on blood constituents before and after splenectomy, 315.

AEDES ALBOPICTUS. Susceptibility to infection with *Plasmodium gallinaceum*, 6.

AEROBACTER AEROGENES, 88, 427.
See also Media, Culture.

AFRICA. See Leverhulme Trust; Reports; Rinderpest, control.

AFRICAN COAST FEVER. See *Theileria* Infection.

AGALACTIA. Treatment in mares, 438.

AGEING. Ageing, 235.

AGGLUTINATION. See Apparatus; Immunology, agglutination; and under name of specific disease or organism.

AGRANULOCYTOSIS, FELINE INFECTIOUS, 393.

AGRICULTURE. Rural reconstruction, Australia, 90.

AIR-BORNE INFECTION. Use of glycol vapours for control of, 126; glycols and floor-oiling in control of air-borne bacteria, 170; effect of ultra-violet light and propylene glycol vapourization on, 126, 127; and disinfection of air, 247; effect of triethylene glycol vapour on air-borne beta haemolytic streptococci in hospital wards, 324; scattering of air-borne spores, 390; glycols for air-sterilization, 416; iodine as aerial disinfectant, 457; bactericidal effects of ultra-violet light, 457; methods of control, 458; effect of oiled floors and bedding on, 458.
See also Apparatus.

ALBUMIN. See Blood, chemical composition.

ALCOHOL. Effects on dwarf tapeworm in mice, 267.
See also Respiratory System, diseases.

ALFALFA. See Pastures.

ALGERIA. See Reports.

ALLERGY. See Immunology, allergy; and under name of specific disease.

ALOPECIA. Caused by fluorine, 318.

AMANITA PHALLOIDES. See Poisoning, plants.

AMBLYOMMA CAJENNENSE. Infection of, with rat leprosy bacillus, 214.

AMIGEN. See Shock.

AMINO ACIDS. Effective parenterally for plasma protein production, 20; in nutrition, 51; requirements of normal mice, 110; studies of rats deprived of amino acids, 158; pathological states due to deficiency, 312; effects of, on resistance of Gram-negative bacilli to penicillin, 320; influence on growth of *L. canicola*, 392; effect on accumulation of fat in the liver, 402; deformity of tongue of chicks and amino acid deficiencies, 405.
See also Books, chemistry; Penicillin; Proteins; Shock.

p-AMINOBENZOIC ACID. Protective action against lethal doses of neo-arsphenamine, 169; effectiveness in spotted fever in g. pigs, 282.
See also Growth; *M. tuberculosis*, viability; Sulphonamide Compounds, general; Vitamins, B complex.

AMNION. See Embryos, fowl.

AMORPHA FRUTICOSA. Effect on cattle grubs, 83.

AMYLOIDOSIS. And renal disease in mice, 109.

ANAEMIA, 197; in iron and copper deficient rats and rabbits, 20; in sheep, 114; treatment, in fox pups, 125; of cattle due to marrow-stem kale, 166; goat's milk anaemia, 311; in rats on a diet low in pantothenic acid, 361; of nutritional origin, in rats, 405; in swine due to pyridoxine deficiency, 443; in swine fed casein hydrolysate, comparison with pyridoxine-deficiency anaemia, 444.
See also Immunology, agglutination.

ANAEMIA, EQUINE INFECTIOUS.
General, 35; polymorphonuclear leucocytes in, 10; pathology of kidneys in, 45; leucocytic formula, 68; in Germany, 144; pathogenesis, 188; duration of carrier state, 348; in Venezuela, 438.
Control. In Switzerland, 10; attempted vaccination with crystal violet tissue vaccine, 100.
Diagnosis. Histopathological diagnosis, 144; histopathology of spleen in, 144; retraction of the blood clot as test for, 145; histological changes in the liver, 146; effect of phenyl hydragine administration on diagnosis, in experimentally infected rabbits, 348.
Treatment. By penicillin, 411.
Virus. Research on, 145; presence in blood of ruminants, 145; effect of temperature on virus, in sera preserved with chinosol, 146.

ANAEROBES, 42; dehydrogenating properties, 40; activation of peptidases of, 41; bacteriology of, 136; structure, 184.
See also *Clostridium*.

ANEROBIASE. Of *Cl. histolyticum*, 41.

ANAPLASMA INFECTION.
General, 93; haemoglobin tests, 43; reactivation of piroplasmosis and anaplasmosis by anthrax spore vaccine, 391.
Transmission, 35; experimental transmission of equine anaplasmosis, 391.
Treatment. By blood transfusion, 169.

ANATOMY. Craniology, 199; of udder of cow, 240; histological studies of boar testes, 277; of the sex accessories of male rabbit, 277; lymphatics of the synovial membrane, 277; transposition of arterial trunks, 277; branchiogenous organs in birds, 277; membrane of the erythrocyte, 315; anatomy of horse as example of that of the dog, 317; internal pressure and capacity of colon and rectum of the horse, 444; early development of sheep's heart, 447; membrana nictitans in small animals, 447; anatomy of various puncture sites, 447; anatomy of cutaneous sensi

ANATOMY—[cont'd.].
bility, 447; arteries, veins and bile ducts of liver of the cat, 447; research on prostate gland in new-born, 448.
See also Books, anatomy; Ears, general; Lymphatic System, general; Nervous System, general.
ANDROGEN. See Hormones, sex hormones.
ANEURIN. See Vitamins, B_1.
ANGIOTONASE. See Blood, plasma.
ANGIOTONIN. See Blood, plasma.
ANHYDRAEMIA. Experimental anhydraemia, 439.
ANHYDROSIS. Thermogenic anhydrosis, 76.
ANIMAL HUSBANDRY. Hill sheep farming, 89; in India, 89; research as applied to animal production, 90; animal husbandry research, 174.
See also Books, animal husbandry; Zootechny.
ANOPHELES. See *Plasmodium* Infection, general.
ANTHELMINTICS.
General. Anthelmintic action of tetrachlorethylene and tetrachlormethane, 29; triphenylmethane derivatives, 58; action of sulphonamides on helminths, 169; anthelmintic studies with some thymol-like compounds, 206; methyl chloroform, 206; action of copper sulphate on *Moniezia expansa*, 206; assay of anthelmintic properties of drugs, 374; anthelmintic tests in cattle, 374.
See also Therapeutics, of parasitic infestations.
For Dogs. Arecoline hydrobromide and filicin for *Echinococcus*, 192; mercury and antimony compounds for microfilariae in, 375.
For Horses, 48; tetrachlorethylene, 58; filix mas. arecolin and copper sulphate for anoplocephalid infestation, 153.
For Ruminants. For sheep, 17; copper sulphate, nicotine sulphate mixture, for sheep, 412; hexachlorethane treatment of liver fluke in cattle, 412.
See also Phenothiazine.
For Swine. Comparison of oil of chenopodium, phenothiazine and sodium fluoride, for swine, 124; iodine for *Hyostrongylus rubidus*, 192; Sodium fluoride as ascaricide, 283; tests with sodium fluoride for, 374.
ANTHRAX. See *Bacillus anthracis* Infection.
ANTIBIOTIC AGENTS.
General. Influence of chemical composition on antibacterial activity, 120; bacteriostatic and bactericidal properties of 2,4-dichlorophenoxyacetic acid, 120; antifungal properties of antibiotic substances, 168; antibacterial actions of *p*-aminomethylbenzene-sulphonamide derivatives, 203; antibacterial action of 4,6-dimethoxytoluquinone, 241; effect of some antibiotics on pathogenic fungi, 244; anthelmintic bioassay of simple saturated hydrocarbons, 246; production of bactericidal activity in cod-liver oil by oxidation, 279; review of use of sulphonamides, penicillin and other antibiotics, 318; bactericidal effect of polythiosol and enthiosol on *Staph. aureus*, 320; antibacterial action of 3′,5′-dibromosulphanilamide, 320; bacteriostatic properties of sulphanilamide and derivatives, 371; antibacterial power and chemical structure of higher alkyl ammonium ions, 376; inactivation of antibacterial agents, 409; susceptibility of staphylococci to antibiotics, 451; *in vitro* antibacterial effects of sulphanilamidoindazoles, 451; antibacterial action of nitrofuran compounds, 456; bactericidal effects of ultra-violet light, 457; antibacterial properties of some mercurials from aliphatic glycols, 457.
See also Books, bacteriology; Iodine; Marfanil; *M. tuberculosis*, viability; Sodium azide; Streptomycin; Sulphonamide Compounds, general; Vitamins, B complex.
Antiseptics. Use of modern antiseptics, 82; germicidal power of sodium chloroorthophenylphenate compared with calcium hypochlorite, 126; factors influencing bacterial survival in presence of, 207; toxicity of antiseptics for embryonic tissue and bacteria, 455; antiseptic properties of tunny fish oil, 456.
Disinfectants, 62; germicidal action of iodine, 59; alkaline ash solutions as disinfectants for F and M disease, 59; action on larvae of *Dictyocaulus filaria*, 73; added to drinking water to prevent fowl cholera, 82; in soap, 170; zephiran for skin disinfection, 207; cationic detergents, 207; tissue compatibility of disinfectants, 247; disinfection of air, 247; hand disinfection, 324; zephyrol in hand disinfection, 376; skin sterilization, 343, 414; skin disinfection, 414; reaction of phenol and *Bact. coli*; effect of temperature, 414.
See also Air-Borne Infection; *Amorpha fruticosa*; Chlorine.
Plant Products. From plants in Indiana, 166; antibiotic activity of lichens, 202; antibacterial substances in plants, 241; bactericidal action of cabbage and other vegetable juices, 242; antibacterial substances in organs of higher plants, 409.
Penicillium Products. Penicidin, 202; antibacterial substances produced by moulds, 202; mycophenolic acid, 242; Penicillin crustosin, 279.
See also Notatin; Penicillin.
Aspergillus Products. Bacteriostatic activity of a macroscopic fungus, 82; production of citrinin by *Aspergillus* sp., 167; bacteriostatic activity of citrinin, 242; flavicin, produced by *Aspergillus flavus*, 202; antibacterial activity of 180 strains of *Aspergillus*, 242; effect of mycophenolic acid on growth of *Staph. aureus*, 253; antitubercular activity of aspergillic acid, 280; variations among *actinomycetis*, 319; substance from *Aspergillus fumigatus* active against *M. tuberculosis*, 321; effect of aspergillic acid on equine encepalomyelitis virus, 322; antibiotic activity of kojic acid produced by *Aspergillus luteovirescens*, 373; proactinomycin, 409; antibacterial activity of *Aspergillus flavus*, 451; antibiotic substances active against *M. tuberculosis*, 452.
See also Streptomycin; Streptothrycin.
Bacterial Products. Bacitracin, new antibiotic produced by *B. subtilis*, 242; production of penicillinase by organisms of the *subtilis* group, 372; antibacterial action of *B. subtilis*, 373; action of subtilin on various organisms, 450; bacillin and antibacillin, 450; from *Pseudomonas aeruginosa*, 451.
ANTIBODIES. See Immunology; and under name of specific organism and disease.
ANTIGENS. See Blood, groups, Immunology, and under name of specific organism and disease.
ANTIMONY TARTRATE. See *Pl. gallinaceum*.
ANTISEPTICS. See Antibiotic Agents, antiseptics.
ANTITOXINS. See Immunology, toxins, and under name of specific organism and disease.
ANTU. As rat poison, 378; pharmacologic action and pathology of alphanaphthylthiourea, 449.
APES. See *Strongyloides*.
APPARATUS. New trichinoscope, 31; for direct blood transfusion, 88; photo-electric photometer, 88; method for preparing graduated capillary serological pipettes for pullorum agglutination test, 127; a micro-glucide dish, 173; for grinding bacteria, 173; for feeding insects to laboratory animals, 173; electron microscope, 173; high-vacuum serum-drying plants, 174; egg-cooling cabinet, 174; glass cutter, 251; instruments for artificial insemination, 286; instrument for measuring animals, 286; special ultra-violet lamps for destroying air-borne bacteria, 286; special Warburg flask for following cell multiplication, 328; devices for warble-fly studies, 306; instrument for administration of fluids through bone marrow, 329; tubercle bacilli in the metabolic apparatus, 338; rake for removal of marginal vegetation in botulism control, 380; demand apparatus for inspiration of cerosols, 417.
ARGENTINE. See *Leptospira* Infection, in dogs; Mange, general; *M. tuberculosis* Infection, general; *Rhinosporidium* Infection.
ARSENIC. Fed to fowls, 336.
See also Poisoning, metals, metalloids and salts.
ARTERITIS. See Circulatory System, diseases.
ARTHRITIS. In cattle, 19.
ARTHROPOD PARASITES. Of fur animals, 14; life history of dog tick, in India, 47; clinical effects of bots in horses, 47; causing lesions of mesenteric by suph nodes in cattle, 73; behaviour of pathogenic bacteria in blood-sucking insects, 102; *Oestrus ovis* infestation, in Italy, 103; in transmission of equine encephalomyelitis, 188; Indian parasitic *Hymenoptera*, 192; notes on the chicken bug, 226; Insects and *Arachnida* in the tropics, 395.
See also *Amorpha Fruticosa*; Blowfly; *Glossina*; Lice; Mange; Mites; Mosquitoes; Myiasis; Parasites General; Technique, parasitological; Ticks.
ARYLAMINE. See *Staph. aureus*.
ASCARIDS, 14, 58, 73; fatal ascarid infestation of a horse, 105; oxidative metabolism of *A. suis*, 228.
ASCORBIC ACID. See Vitamins, C.
ASPERGILLUS. See Broncho-pneumonia.
ASPERGILLUS INFECTION. Avian aspergillosis in Eritrea, 97; in caged birds, 97.
ATABRIN. See Bacteria General, growth.
ATAXIA. Of lambs in Australia, 51; and copper deficiency, of sheep, 358; in swine, 405.
AUJESKY'S DISEASE, 392.
AUSTRALIA. See Agriculture; Ataxia; *B. anthracis* Infection, immunization; *Brucella* Infection, immunization; Cattle, general, diseases general; Copper; Mastitis, Bovine; Milk, pasteurization; *M. tuberculosis* Infection, avian type; Pleuro-Pneumonia, Bovine Contagious; Reports; *Salmonella* Group, general; Services, Veterinary; Swine Fever; Vitamin A.
AUSTRIA. See F and M Disease, general.

B

BABESIA INFECTION [PIROPLASMOSIS].
General. Reactivation of piroplasmosis and anaplasmosis in cattle by anthrax spore vaccine, 391; action of acaprin on piroplasms in rinderpest-virulent blood, in Eritrea, 146.
In Cattle, 419; *B. berbera* infection, in Portugal, 7; inoculation, 67; "constitution" in cattle and resistance to, 391.
In Dogs. Experimental study of, 261; in Eastern Europe, 391.

BABESIA INFECTION [PIROPLASMOSIS]—[cont'd.].
In Horses. Experiments in transmission, 218.
In Sheep. Treatment, 28.
Treatment. Of European bovine piroplasmosis with trypanblue, "todorit" and acaprin, 28; of ovine piroplasmosis with acriflavine, 28.
BABESIA OVIS. Viability of, in *Rhipicephalus bursa*, 186.
BACILLIN. See Antibiotic Agents, microbial derivatives.
B. ACTINOIDES. Infection of bovine lungs with organism resembling, 180.
BACILLUS ANTHRACIS, 42, 81, 456; multiplication in soil and water, 180.
B. ANTHRACIS INFECTION.
General, 62, 92, 419, 461; in a horse, in Finland, 37; occurrence in Germany, 289; history and distribution in U.S.A., 386.
Diagnosis. Ascoli's thermo-precipitation test, 298.
Immunization, 61, 85, 93, 336; Vaccination, in Australia, 179, 180; anti-anthrax serum from hyperimmunized horses and sheep, 180; efficacy of commercial anti-anthrax bacterins, 254; immunochemical study of: the oedema liquid of the guinea pig and the polyosides, 421; reactivation of piroplasmosis and anaplasmosis by anthrax spore vaccine, 391.
Transmission. By carrion eaters, 131; through flies, 213.
Treatment. With sulphadiazine, 370.
B. BREVIS, 81.
B. MEGATHERIUM, 42.
See also Immunology, general.
B. MESENTERICUS, 81.
B. MYCOIDES. Endospore formation by, 180; nature of reserve material in the endospore of, 343.
B. PRODIGIOSUS, 398.
B. PROTEUS. Effect of penicillin on, 121.
See also Immunology, agglutination.
B. SUBTILIS, 42.
B. WAKEFIELD. Critical examination of, 424.
BACITRACIN. See Antibiotic Agents, microbial derivatives.
BACTERIA GENERAL.
General. Resemblance of *Listeria* to *Erysipelothrix*, 39. proposed biochemical basis for *Pseudomonas*, 39; cytological observations on *Bact. coli*, *Proteus vulgaris* and various aerobic spore-forming bacteria, 39; Biochemical characteristics of pigmented coliform bacteria, 40; pathogenicity of bacteria as a biochemical problem, 56; bacterial glycogen, 63; acid-fast bacilli in non-tuberculous pulmonary disease, 95; behaviour of pathogenic bacteria in blood-sucking insects, 102; effects of penicillin on intestinal bacteria, 168; study of Corynebacterium, 182; genetic aspects of virulence, 217; Bacteriodes infections, 184; acid-alcohol-fast bacillus, in Cuba, 294; action of radiation on, 428; bubble formation, in animals, 161.
See also Actinobacillosis; Actinomycosis; Air-borne Infection; Anaerobes; *B. anthracis*; *Bact. coli*; *Bact. friedländeri*; *Brucella*; *Clostridium*; *Corynebacterium*; Immunology, general; Mastitis, Bovine; *Mycobacterium*; *Pasteurella*; *Pfeifferella*; Pneumonia-Like Organisms; *Proteus*; *Salmonella*; *Staphylococcus*; *Streptococcus*; Technique, general, bacteriological; Therapeutics, of bacterial diseases.
Agglutination. See Immunology, agglutination, and under name of specific organism and disease.
Antigens. See Immunology, antigens, and under name of specific bacteria.
Counts. See Technique, bacteriological.
Cultivation. See Media, Culture; Technique, bacteriological.
Dissociation. Time of appearance of mutant in *E. coli.*, 327.
Flora of Organs and Tissues. See Digestive System, flora.
Growth. Effect of sodium azide on microbic growth and respiration and on glucose fermentation and lactic acid production by streptococci and lactobacilli, 42; action of sulphonamides on, 167; effect of spleen extract on, 185; relation to vitamins and other growth factors, 185; inhibition by analogues of pantothenic acid, 216; inhibitory effect of atabrine and acridine derivatives, 452.
Inhibition. Bacteriostatic activity of a macroscopic fungus, 82; relationships between metabolic and growth inhibitions by pantothenate analogues, 318.
See also Penicillin.
Metabolism. Bacterial proteases, 40; activation of peptidases of anaerobic bacteria, 41; proteolytic conversion of α prototoxin into α toxin by trypsin and other proteases, 41; effect of sodium azide on microbic growth and respiration and on glucose fermentation and lactic acid production by streptococci and lactobacilli, 42; conversion of desthiobiotin into biotin by some microorganisms, 259; sulphur dioxide formation by intestinal bacteria, 295.
Pyrogens. Removal of bacterial pyrogens from protein hydrolysates, 295.
Technique. See Technique, bacteriological.
Toxins. See Immunology, toxins, and under names of various bacteria.
Viability. Of typhoid-paratyphoid-enteritis group, 96; revival of organisms presumably killed by phenol, 343; death at low temperatures, 343; effect of *Staph. aureus* extracts on various bacteria, 427.
See also Antibiotic Agents, antiseptic.
BACTERIOPHAGE. Bacteriophage therapy of calf colibacillisis and paratyphoid and piglet dysentery, 121; effect on *S. pullorum*, 424; treatment of gas gangrene with, 265; correlation between bacteriophage production and production of inhibiting substance by sensitive bacteria, 266; dysentery bacteriophage, 351; observation through a light microscope, 432; size determination by sensitivity to friction, 433; relationships of virulence of, and susceptibility of corresponding bacteria, 433; influence of pH and temperature on survival of coliforms and enteric pathogens exposed to chloramine, 456; interference between bacterial viruses, 189.
See also Penicillin; *Pseudomonas*; Viruses, cultivation.
BACT. COLI, 85, 88, 287, 369, 373, 388; influence of concentration of the substrate on rapidity of adaptation of, 134; search for paracolon in *Bact. coli-mutabile* populations, 134; reaction with phenol, 414.
See also Bacteria General, general.
BACT. EQUIRULIS. In horses and pigs, 424.
BACT. FRIEDLANDERI. Isolation from a case of septicaemia in a sucking pig, 39; in canine cystitis, 96.
BACT. PARATYPHOSUM. See Technique, bacteriological.
BACT. SUBTILIS, 456.
See also Antibiotic Agents, microbial derivatives.
BACT. TULARENSE. Morphology and filtrability, 182.
BACT. TYPHOSUM. Synergic action of penicillin and sulphathiazole on, 320; sensitivity to penicillin, 453.
See also Immunology, antigens; Technique, bacteriological.
BADGERS. Control of rabies in, 392.
BANDICOOTS. Tick-paralysis in, 190.
BANG'S DISEASE. See *Brucella* Infection.
BARIUM. Barium contamination of salt causing Kiating paralysis, 448; absorption and concentration in serum, in acute experimental poisoning, 448.
BARTONELLA INFECTION. In rats, fall in potassium level, 5; in rats, effect of penicillin, 244.
BASUTOLAND. See Reports.
BATS. Transmitting rabies, 141; bat malaria, 296.
BCG. See *Mycobact. tuberculosis*, BCG.
BEE STINGS. Toxicity of bee stings in horses, 450.
BELGIAN CONGO. See Reports.
BENADRYL. Influence on healthy persons and those suffering from disturbances of autonomic nervous system, 454.
BENZPYRENE. Producing neoplasms, 355.
BERI-BERI. In foxes, 272.
BERTOLINELLA INTESTINALIS. In a horse, 344.
BIG HEAD. See Horses, diseases general.
BIOCHEMISTRY. Of pregnancy toxaemia, 79; annual review, vol. 14, 79; of the thyroid gland, 239; use of tadpoles for assay of thyroidal activity of thyroid preparations, 274; biliary amylase in fowls, 275; of milk secretion, 275; of steroid sex hormones, 407; biochemical characterization of actions of chemotherapeutic agents, 318; annual review of research in India, 21, 317; Biochemical characteristics of pigmented coliform bacteria, 40; influence of adrenochrome on migration of bone-marrow "in vitro" compared with liver extract, 22.
See also Proteins.
BIOLOGICAL PRODUCTS.
Standardization. Vaccines, 60.
BIOLOGY. See Books, biology.
BIOTIN. See Vitamins, B complex.
BLACKLEG. See Clostridium chauvoei Infection.
BLADDER. See Haematuria.
BLASTOMYCES INFECTION. In dogs, 294.
BLOAT. In cows on alfafa pasture, 155.
BLOOD
General, 62; coagulation, substitutes, 21; effect of shock, 108, 109; animal blood bank, 174; study of, in haemorrhagic diathesis, 232; bactericidal action of bovine blood for *Brucella*, 340; protozoa in blood of healthy cattle, 346; effects of deep breathing on blood pressure, 406.
See also Haematuria; Technique, general; *Trichinella* Infection, general.
Bacterial Content. See *Br. abortus* Infection, immunization.
Chemical Composition. Native and regenerated bovine albumin, 13; alkali reserve in blood and cerebrospinal fluid of horses, 54; adenosine equivalent of blood of rabbits following tissue injury, 108; blood proteins in normal and pathological states, 232; stability of organic phosphorus compounds and phosphatase in horse blood, 235; nicotinic acid in, 361; blood sugar estimation after intravenous injection of "periston" in horses and dogs, 364; nitrogen and chlorine contents, in haemorrhage, 406; histidine content of adult and foetal haemoglobin,

BLOOD—Chemical Composition—[cont'd.].
406; blood sugar content of domestic mammals, 416; haemoglobin content of blood of piglets, 445.
See also Bones, development; Horses, diseases general; Vitamin A.
Coagulation. Prothrombin levels of animals in shock, 109; influence of inhibitory substance in coagulation time, 364; effect of ascorbic acid on the hypoprothrombinaemia induced by dicumarol in the guinea pig, 368; effect of penicillin on, 409.
Corpuscles [Red]. In *P. gallinaceum* infection, 7; action of complement, 13; mechanism of cobalt polycthemia, 20; life duration in Macacus rhesus monkeys, 53; cold isohaemagglutinins, 101; size of, in the horse, and variations in diseases, 113; diameters of, mammalian, 114; constituents in, of value in wound healing, 117; in *Nuttalia* infection, 140; in equine infectious anaemia, 188; haematic corpuscles within red blood cells of cats, 269; local haemopoiesis in abomasum of cow and sheep, 276; *in vivo* isosensitization of red cells in babies with haemolytic disease, 305; membrane of the erythrocyte, 315; corpuscular elements in erythrocytes of infected dogs and cats, 393.
See also Blood, picture; Physiology; Technique, general.
Corpuscles [White]. Polymorphonuclear leucocytes in equine infectious anaemia, 10; in *S. pullorum* Infection, 40; lymphocyte content of rabbit bone marrow, 276; influence of pituitary adrenotrophic hormone on, 55; variation in blood cells of guinea pigs inoculated BCG, 291; leucopenia and inflammation, 312; in *T. congolense* infected cattle, 344; leucopenia preceding clinical symptoms in ferret distemper, 149; effect of vitamin C on number of granulocytes, 314; poisoning due to mobilization of lead from the skeleton by leucaemic hyperplasia of bone marrow, 240; quantitative relationship between lymphoid organs and blood lymphocytes of rats, 365.
See also Anaemia, Equine Infectious, general; Blood, picture; Physiology; *Streptococcus*, general.
Counts. In *Haemonchus* infections, 16; in fowl paralysis, 18; prognostic value in surgical conditions of horse, 18; differential germ test with leucocyte count in control of mastitis, 254; leucocytic formula of milk from cows reacting to tuberculin, 256; in streptococcal infections, 385; statistical interpretation, 329.
Diseases. Poikilocytosis in dairy cattle, 108; therapeutic effect of yeast and pyridoxine on poikilocytosis in dairy cattle, 314.
Groups. Differences in pregnancy of cellular antigens in two breeds of dairy cattle, 55; protective factors in heterospecific blood group pregnancy, 72; Rh blood factors, 276.
Haemoglobin. Haemoglobin tests in anaplasmosis, 43; photo-electric estimation, 88; primary standard for colorimetric determination, 460.
Picture. In experimental bartonella anemia, 5; in equine infectious anaemia, 10; in *Haemonchus* infection in cattle, 16; of iron and copper deficiency anaemias in the rat and rabbit, 20; of dogs after injection of methyl celluloses, 53; haematology of sheep, leucocytic reactions, erythrocytic and thrombocytic pictures, 113; blood pictures in sheep diseases, 195; effect of sulphapyridine on, in horses, 203; influence of autonomic nervous system on, 235; effect of histamine on, in horses, 270; in avian leucosis, 309; effects of adrenalin and nembutal anaesthesia on blood constituents before and after splenectomy, 315; and deficiency symptoms, 336; haemogram in tuberculous guinea pigs, 337; in *T. congolense* infection, 344; changes of blood constituents in diseases of ruminants, 365; in bovine leucosis, 398.
Plasma, 179; effect of chlorobutanol on ascorbic acid levels, 114; changes in plasma volume and protein following burns, 165; injection of blood plasma in treatment of F and M disease, 187; maximal haemoglobin and plasma protein production under depletion stimulus, 197; influence of injection of sonic filtrate of *Br. abortus* on blood-leucocyte picture of cattle positive to brucellosis, 257; connection between plasma cells and hyperglobulinaemia in horses and cattle, 259; gelatin and pectin solutions as substitutes for plasma in treatment of shock, 283; effect of vitamin K and of quinine sulphate on prothrombin level, 315; vitamin A content of, in calves and cattle, 359; influence of plasma lipids on electrophoretic patterns of human and dog plasma, 364; residual nitrogen in blood plasma of the horse, 364; plasma protein concentration, 406; site of angiotonin destruction, 435.
See also Amino Acids; Vitamin A.
Platelets. Relationship to mechanism of haemostasis, 22; effect of heparin *in vivo* on platelet count in mice and dogs, 276.
Sedimentation Rate, 276.
See also Technique, general.
Serum. Weltmann serum coagulation reaction for diagnosis of neoplastic disease, 49; electrophoresis experiments on, 276; changes of serum phospatase level after infection of cows with *Br. abortus*, 425.
See also Apparatus; Technique, general.
Transfusion. Sensitization to Rh factor by, 114; as a treatment for anaplasmosis, 169; value of cross-test for blood for transfusion in horses, 364.
See also Technique, general.
Virus Content. See Rinderpest, general.
BLOWFLY. Lesions due to larvae of blowfly in stomach of a pig, 103; chemotropic studies, 306; prevention and treatment of blowfly strike in sheep, 352; control, 380; sheep blowfly investigations, 396.
See also Parasiticides, D.D.T.; Technique, general.
"BLUE COMB" DISEASE. Occurrence in England of disease resembling, 18.
BLUE TONGUE, 287, 419; influence of solar radiation on, 223; transmission by *Culicoides*, 348.
BONE MARROW. Morphology of erythroblasts and myeloblasts in normal horse bone marrow, 23; lymphocyte content, in rabbits, 276.
See also Biochemistry; Blood, corpuscules [White].
BONES.
General. Craniology, 199; correlation of mechanical properties of bone with antirachitic healing and molecular structure, 366.
Development. Carbonate content in relation to composition of blood and diet, 53; fluoride ingestion and bone changes, 81; growth and healing, 239.
See also Hormones, general.
Diseases. Arthritis deformans of cattle, 19; osteoperiostitis with TB in a horse, 38; in dogs, 38; osteoporosis in cattle, 77; leg anomaly caused by confining chickens in small cages, 108; osteofibrosis in equines in Brazil, 111; bone TB, 172; treatment of osteomyelitis with penicillin, 203, 243; leg deformity in turkeys and *S. enteridis*, 388; filtrable agent producing osteopetrosis, 331.
See also Achondroplasia; Fistulae; Joints; Neoplasms, general; Rickets.
Fractures. Of hyoid bone in a mule, 19; effects of thyroxin and stilboestrol in healing fractures in rats, 55; effect of vitamins A and D on healing, in rats, 112; influence of rickets on tibiae of rats, 234; fracture of pelvic bones in bovines implanted with synthetic oestrogen, 366.
BOOKS.
General. The observer's book of dogs, 94; American Veterinary Medical Association, Directory 1945, 208; Gold Coast manual of veterinary laboratory routine, 417; a source book of biological names and terms, 288; milk, production and control, 463.
Anatomy. Speed in animals, 94; dissection guide for veterinary anatomy, 211.
Animal Husbandry. Sheep, 212.
Bacteriology. Brucellosis in Cuba, 62; microbial antagonisms and antibiotic substances, 383; bacteriology of salmonella group, 384.
Biology. Bioenergetics and growth. With special reference to efficiency complex in domestic animals, 384; microbiology and epidemiology, 464.
Chemistry. Outline of the amino acids and proteins, 383.
Diseases General. Nervous diseases of cattle. A basis for comparative neurology of man and domestic animals, 288.
Histology. Textbook of histology for medical students, [illegible].
Immunity. Sera, vaccines, allergens and immunogens, 212, 288; sera, vaccines, and diagnostic agents, 288.
Parasitology. Manual of parasitology, 36; trichinosis, 178; introduction to parasitology. With special reference to parasites of man, 384; list of parasites of domesticated animals in North America, 420.
Pathology. Manual of veterinary clinical pathology, 212; avian pathology, 288.
Physiology. Reticulo-endothelial system in sulphonamide activity, 252.
Statistics. Statistics, 178.
Technique. Measurement of colour, 212; laboratory methods of U.S. Army, 420.
Therapeutics and Materia Medica. Microbial antagonisms and antibiotic substances, 383; synopsis of materia medica, toxicology, and pharmacology, 383.
Toxicology. Lead Poisoning, 252.
Yearbooks. Institute of Inspectors of Stock of New South Wales, 1943 and 1944 yearbooks, 175.
BORNA DISEASE, 100.
BORRELIA GALLINARUM. Cultivation, 250.
BOTRYOMYCOSIS. Aetiology, diagnosis and pathogenesis, 254.
BOTS. See Arthropod Parasites; Oestridae.
BOTULISM. See *Clostridium botulinum* Intoxication.
BOVINE CONTAGIOUS ABORTION. See *Brucella* Infection, in cattle.
BOVINE MALIGNANT CATARRH. See Catarrh, Bovine Malignant.
BRACKEN. See Poisoning, plants.

BRAIN.
General. See Technique, parasitological.
Diseases. Capillary fat-embolism in brain of sheep, pigs and monkeys, 75; mental disorders in animals, 233; in *P. gallinaceum* infection, 345; pseudotuberculosis in brain of sheep, 387.
See also Encephalitis, Encephalomyelitis.
BRAZIL. Vital Brazil Institute, 89.
See also Bones, diseases; Conferences; Encephalomyelitis, general; Encephalomyelitis, Equine, immunization; *S. pullorum* infection, general.
BREEDING. See Zootechny.
BRITISH GUIANA. See Reports.
BRITISH HONDURAS. See Reports.
BROMTHYMOL BLUE. See Mastitis, Bovine, diagnosis.
BRONCHITIS. Pathology of infectious bronchitis and broncho-pneumonia in cattle, differential diagnosis, 348.
BRONCHITIS, AVIAN INFECTIOUS, 336; pathology of, and carrier status of chickens recovered from, 11.
BRONCHO-PNEUMONIA. Aetiology of, in horses, in Russia, 5; in cattle, treated with aluminium sulphonamides, 282; pathology of infectious bronchitis and broncho-pneumonia of cattle, and differential diagnosis, 348.
BRUCELLA GROUP.
General, 51; propagation in the mouse, 135.
Vaccines. See *Brucella* Infection, immunization.
Viability, 373; bactericidal action of bovine blood for, 340.
BRUCELLA INFECTION.
General, 33, 60, 252, 380, 462; in Cuba, 62; in U.S.A., 130, 388; reaction of reticulo-endothelial system in experimental brucellosis of dogs, 135; prevention of allergy in veterinarians, 215; Report of committee on Bang's disease, U.S.A., 389; epidemiology diagnosis and control, [illegible]
Control. In Germany, 293; control in relation to meat and dairy products, 389.
Diagnosis. Tube agglutination test for, 136; ring test, 183; standardization of agglutination test, 294; serological examination for, in man and animals in Turkey, 294; clinical, bacteriological, serological and allergic diagnosis, in horses, 389.
In Cattle, 61, 91, 93, 419; in India, 5; relationship of oestrin to colonization of *Br. abortus* in calves, 40; vaccination, 65; opsonocytophagic test, 65; sterility and control of brucellosis, 97; control in U.S.A., 183; infertility during infection, 183; Bang's disease in North Carolina, 388; changes in serum phosphatase level after infection of cows with, 425.
See also Blood, picture.
In Goats, 426; in India, 5; in Eritrea, 389.
In Horses, 40, 65, 66; in Finland, 342; diagnosis in, 389.
In Man [Undulant Fever]. In India, 5; in Eritrea, 257, 258; in U.S.A., 389.
In Sheep. In India, 5; in Eritrea, 389.
In Swine. Incidence of, 389.
Immunization, 35, 92, 335, 461, 462, 463; semi-liquid formol vaccine, 97; abortion following vaccination with strain 19, 97; agglutinins in blood and milk after vaccination, 183; reduction in milk yield following vaccination, 183; strain 19 vaccine, 183; of guinea pigs, 257; standardization of vaccines, 293; immunizing value of vaccines, field trials, 341; field trial in Australia, 342; immunity tests and new vaccination method, 388; live vaccine for, 388; relationship of dosage and site of inoculation to agglutinin response to *Br. abortus* strain 19 vaccine, [illegible]
BR. BRONCHISEPTICA. Influence of substrate on variation of, 258.
BR. MELITENSIS. Recovery from cheese manufactured from goats' milk, 426.
BRUCELLA SUIS, 135.
BUFFALO. On dairy farms in India, 172.
See also Placenta.
BUFFALO FLY. See Siphona.
BURMA. See F and M disease; Newcastle Disease; Pleuro-Pneumonia. Caprine Contagious; Rinderpest; Services, Veterinary; *T. evansi* Infection.
BURNS. Metabolic alterations following thermal burns, 165; absorption of sulphonamides from the burn surface, 284.
See also Wounds.
BUTTER. Tubercle bacilli in, 84; production in Swaziland, [illegible]

C

CAECUM. Impaction of, 153.
CALCIFEROL. See Vitamin D.
CALCIFICATION. See Heart, diseases.
CALCIUM, 53, 54, 117, 177; in treatment of D.D.T. poisoning, 59; deficiency, 92; in animal diets, 111; hypocalcaemia in mares, 314; deficiency in pastures, 417; comparative action of calcium, phosphorus and vitamin D on teeth of rachitic rats, 443.
See also Eggs; Metabolism, general; Nutrition, general, diseases.
CALCULI, 336, 381.
See also Intestines.
CALVES, 287; common disorders of, 49; calf diseases, 399; See also Diarrhoea; Haematuria; Nutrition, diseases; Physiology; Pneumonia; Rickets; Ringworm; Vitamins, general; Vitamin A.
CAMELS, 62.
See also *M. tuberculosis* Infection, diagnosis; *T. evansi* Infection.
CANADA. See Cheese; Encephalitis, general; Encephalomyelitis, Equine, general; Helminth Parasites, general; Milk, general; *M. tuberculosis* Infection, in cattle, in man; Reports; *S. pullorum* Infection, control; Scrapie; Services, Veterinary; *Trichinella* Infection, general.
CANARIES. Experimental avian malaria in, 6; experimental infectious hepatitis in, 350, 432; *Plas. relictum* infection in, 139.
See also Metabolism; Sulphonamide Compounds, mode of action.
CANCER. See Neoplasms.
CAPILLARIA CAUDINFLATA. See Nematodes.
CARPITIS. Primary tuberculous carpitis in a cat, 63.
CARCASS DISPOSAL. Disposal of waste water from animal carcass disposal plants in Germany, 59.
CARCINOMA. See Neoplasms.
CASEIN. Influence on production of renal lesions by sulphadiazine, 207; experiments with iodinated casein, 444.
See also Nutrition.
CASTRATION. See Genital System, general; Hormones, sex hormones.
CATARRH, BOVINE MALIGNANT. In Switzerland, 148; in Italy, 222; in U.S.A., 430.
CATS. Rodent control, 464.
See also Agranulocytosis, Feline Infectious; Anatomy; Blood, corpuscles [Red]; Carpitis; *Entamoeba histolytica;* Kidneys, diseases; *M. tuberculosis,* virulence; Panleucopenia; Parasiticides, D.D.T.; Pneumonia; *S. typhi-murium;* Trematodes; Yellow Fever.
CATTLE.
General. Prospective requirements for dairy cattle replacements in Europe as a result of the war, 32; Zebu-cross cattle in Australia, 90; lactation records for comparing dairy cows, 128; terminology, 331; digestive system, 357.
See also Anatomy; Bones, fractures; Growth; Insemination, Artificial; Nutrition; Phosphorus; Vitamin A; Zootechny.
Anthropod Parasites. See *Amorpha Fruticosa;* Anthropod Parasites; Liver, diseases; Mange; Ticks.
Bacterial Diseases. See *B. actinoides;* Blood, picture; *Brucella* Infection; *Corynebact ovis* Infection; *Corynebact. pyogenes;* Eyes, diseases; Genital System, diseases; Keratitis; Marfanil; Mastitis, Bovine; *M. Johnei* Infection; *Mycobact. tuberculosis,* general; *M. tuberculosis,* BCG; *M. tuberculosis* Infection, in cattle; *Salmonella* Infection, general.
Diseases General. Ephemeral fever, in Australia, 74; yoke galls in cattle in India, 231; nervous diseases, 286.
See also Acetonemia; Bloat; Blood, diseases; Bones, diseases; Copper, deficiency; Digestive System, disease; Dropsy; Haematuria; Joints; Liver, diseases, Lymphatic System; Neoplasms, causation; Nutrition, diseases; Phosphorus; Stomatitis; Therapeutics, general; Uterus.
Genital System. See Corpus Luteum; Genital System, diseases; Uterus.
Helminth Parasites. See *Haemonchus;* Helminth General; Myiasis; Phenothiazine; Thelazia.
Physiology. See Blood, general, plasma; Intestines, general; Lactation; Metabolism; Oestrus; Ovulation; Physiology; Pregnancy, diagnosis; Rumen; Stomach; Temperature; Vitamin A; Water.
Poisoning. See Parasiticides, D.D.T.; *Pasteurella* Infection, in bovines; Phenothiazine; Poisoning, metals, metalloids and salts, plants.
Protozoan Diseases. See *Babesia* Infection, in cattle, treatment; Protozoa; Therapeutics; of protozoan diseases; *Trichomonas* Infection, in cattle; *T. congolense.*
Rickettsial Diseases. See *R. conjunctivae* Infection.
Virus Diseases. See Broncho-pneumonia; Catarrh, Bovine Malignant; Knopvelsiekte; Neoplasms, general; Pleuro-Pneumonia, Bovine Contagious; Rabies, in cattle, transmission; Rinderpest; Stomatitis, Vesicular.
CEREBROSPINAL FLUID. Alkali reserve, in horses, 54.
CESTODES. In sheep, 14; Vitamin requirement of tapeworms, 48; diagnosis and therapy of anoplocephalid infestation in horses, 153; action of copper sulphate on, 206; effects of alcohol on natural resistance to dwarf tapeworm in mice, 257; *Cysticercus bovis,* 397; teniacidal action of di-phenthane-70, 454.
See also Anthelmintics; Helminth Parasites.

CEYLON. See Milk, general; Reports.
CHAGAS' DISEASE. See *T. cruzi* Infection.
CHARLOCK. See Poisoning, plants.
CHEESE. Survival of *E. typhosa* in, 84; typhoid in U.S.A. traced to, 248; carrying typhoid fever in Canada, 248; staphylococcal food poisoning caused by, 377; recovery of *Br. melitensis* from, 426.
See also Milk, pasteurization.
CHEMISTRY. Of plant products, 22.
See also Books, chemistry.
CHEMOTHERAPY. See Therapeutics.
CHENOPODIUM, OIL OF. See Anthelmintics, for swine.
CHICKS.
General. See Eggs; Vitamins, B complex.
Diseases. "Six day disease" of, 440.
See also Bronchitis, Avian Infectious; Leucosis, avian; Neoplasms, immunity; Nutrition, diseases; Phosphorus; *Plas. gallinaceum*; *S. thompson*.
CHINOSOL. See Anaemia, Equine Infectious, virus.
CHLORINE. Mode of action of compounds containing chlorine, 126; chlorine disinfection of waste water from works preparing swine fever virus and antiserum, 265.
See also Water.
CHLOROBUTANOL. See Vitamins, B complex.
CHLOROFORM.
See Neoplasms, causation.
CHLOROPICRIN. See Strangles.
CHOLINE CHLORIDE. See Metabolism, general; Vitamins, B complex.
"CHOLIVETRAT." See Strangles.
CHORIO-ALLANTOIC MEMBRANE. See Embryos, fowl.
CHROMOMYCOSIS. In mice, caused by *Hormodendrum pedrosoi*, 259.
CIRCULATORY SYSTEM.
Diseases. Penicillin therapy in acute bacterial endocarditis, 57; arteriosclerosis, 356; peri arteritis nodosa in a pig, 439.
See also Heart, diseases.
CIRRHOSIS. See Liver, diseases.
CITRININ. See Antibiotic Agents, plant products.
CLIMATE. Journey of army horses to east front in winter 1941-42, 49.
CLOSTRIDIUM INFECTION.
General. Toxaemia of gas gangrene, 184; pathology of experimental infections in dogs, 215; active immunization against gas gangrene, 258; toxin and antitoxin studies of gas gangrene in man, 426.
Diagnosis. Of enterotoxaemia, 40; of gas gangrene, 258.
In Sheep. Experimental reproduction of enterotoxaemia, [illegible]
In Swine. Pathology of malignant oedenia in, 136.
Toxins. Production from *Cl. septicum*, 66.
Treatment. Sulphonamide therapy of gas gangrene, 121; treatment and prophylaxis of gas gangrene with bacteriophage, 265; antitoxin treatment, 225.
See also Sulphonamide Compounds, mode of action.
CL. BOTULINUM INTOXICATION, 40, 334; in horses, 215, 216; treatment of acute botulism by artificial respiration, 281; relation of selenium to, 342.
See also Apparatus.
CL. CHAUVOEI. Multiplication in soil and water, 180; haemolytic character of, 183, 93, 180, 419, 420, 461.
CL. HISTOLYITICUM, 120, 265, 321; anaerobiase of, 41.
CL. NOVYI, 215.
CL. OEDEMATIENS, 225, 265, 304, 321, 373; active immunization, 258.
CL. PERFRINGENS. Causing mastitis, 258.
CL. PUTRIFICUM, 265.
CL. SEPTICUM, 215, 225, 265, 321.
See also *Clostridium* Infection, toxins.
CL. SORDELLII, 215.
CL. SPOROGENES, 40.
CL. TETANI INFECTION, 121; metabolism, 41; seroanatoxitherapy in treatment of, 136; regional distribution, 215; fermentation of glucose by, 215; in African and European war regions, 258; mechanism and treatment of the spasms in tetanus, 321.
See also Technique, bacteriological.
CL. WELCHII, 40, 61, 72, 78, 120, 121, 184, 215, 225, 265, 321, 426; sulphonamide therapy, tyrothricin, zephiran, zinc oxide, urea and penicillin therapy, in mice and guinea pigs, 26; proteases of, 40; epsilon toxin of, 41; identification by a cultural reaction, 173; tissue changes induced by, 184; active immunization, 258; haemolysins of, 380, 389; protection of animals against *Cl. welchii* toxin by lipoids, 426.
See also *Clostridium* Infection, diagnosis.
COBALT, 61; control of cobalt deficiency, New Zealand, 111; cobalt deficiency, 159; deficiency in sheep, 312.
See also Blood, corpuscles [Red]; Poisoning, metals, metalloids and salts.
COCCIDIOSIS. See *Eimeria* Infection.
COCHLIOMYIA. Of sheep, 14; overwintering ecology of, 306.
COCHLOSOMA SP. Infectious enteritis of turkeys associated with, 138.
COD-LIVER OIL. See Antibiotic Agents, general; Wounds.
COLIFORM ORGANISMS. Biochemical characteristics of, [illegible]
COLON. See Anatomy.
COLOSTRUM. Immunity conferred via, 102.
See also Vitamin A.
COLUMBIA. See Encephalomyelitis, Equine, virus; Pathology; Ticks, general.
COMMON COLD. A revolutionary hypothesis, 386.
COMPLEMENT, COMPLEMENT FIXATION. See under Immunology.
CONDYLOMATA ACUMINATA. See Podophyllin.
CONFERENCES. Report on second Brazilian Congress 1943, 60; of veterinary directors, U.S.S.R., 86; international veterinary congresses, 378.
CONGENITAL DEFECTS. Hereditary dwarfism in mice; histology of anterior pituitary in hereditary adiposity, 110; rubella in pregnancy and congenital defects in the child, 196; aortic abnormalities in dogs, 233; double external as in cattle, 234; of nutritional origin, in swine, 234; an hereditary defect of new-born lambs, 312; hereditary lameness in cattle, 358; congenital goitre in lambs in Tasmania, 362; "smooth tongue" in cattle, 401; double spleen in a goat, 401; hereditary hare lip in dogs, 440; following rubella in the mother, 440.
COOPERIA. See Trichostrongyles.
COPPER. Deficiency in cattle and sheep, in New Zealand, 111; deficiency of sheep in Australia, 177, 358, 359; effect of molybdenum on copper metabolism in herbivorous animals, 359; copper metabolism of farm animals, 402.
See also Anaemia; Physiology; Poisoning, metals, metalloids and salts.
CORPUS LUTEUM. Effect on pregnancy in sheep, 55; diagnosis in cattle, 164.
CORYNEBACT. BOVIS, 339.
CORYNEBACT. DIPTHERIAE, 42, 373.
CORYNEBACT. EQUI. Isolated from a calf, 4.
CORYNEBACT. OVIS INFECTION, 373; in cattle, 38.
CORYNEBACT. PYOGENES, 37, 369, 387; abscesses in bovines due to, 181; studies on toxin of, 339; survival in discharges from bovine udder and uterus, 339.
COSTA RICA. See Parasites, General.
COTUGNIA BHALERAOI, 14.
CREATINE, 117.
See also Muscles, diseases.
CRYPTOCOCCUS FARCIMINOSUS INFECTION [EPIZOOLYMPHANGITIS], 461; treatment with corrosive sublimate, 27; treatment in horses with mercuric iodide, 27; in horses, 65, 66; in India, 85.
CRYSTAL VIOLET VACCINE. In avian leucosis, 107; for prevention of swine fever in Venezuela, 223; and swine fever, 264.
See also Anaemia, equine infectious; Swine Fever, immunization.
CUBA. Brucellosis in Cuba, 62; work of Laboratory of Experimental Pathology, Cuba, 89.
See also Bacteria General, general.
CULICOIDES. Transmission of blue-tongue and horse sickness by *Culicoides*, 348.
"CUPROSOLVIN." See Strongyles.
CYPRUS. See Reports.
CYSTICERCUS. Serological diagnosis, 227.
CYSTICERCUS BOVIS. See Helminths General.
CYSTITIS. In a dog, 96; in cattle, in Italy, 222.

D

DANDER. See Immunology, allergy.
D.B.E. A new synthetic oestrogen, 246.
D.D.T. See Parasiticides, D.D.T.
DEER. See Helminth Parasites, general.
DENMARK. See F and M Disease, general; Lameness; *M. tuberculosis* Infection, general; *Oestridae*.
DERMANYSSUS GALLINAE. Equine encephalomyelitis virus from, 10.
DERMATITIS. See Skin, diseases.
DERMATOPHYTES. Role in human ringworm, 259.
DERRIS. In control of Rickettsial infections, 101; in sheep dips, 332.
DIAGNOSTIC METHODS. Blood determinations in surgical conditions of horses, 18; the scientific method in clinical medicine, 461.
DIAMIDINES. Effect of light on, 26.
DIARRHOEA. Control and treatment in calves, 83; scours in calves, treatment, 160.
See also Phenothiazine.
DIASONE. See Sulphonamide Compounds, therapy.
DIATHESIS. Haemorrhagic diathesis in domestic animals, 232.
DICUMAROL. See Blood, coagulation.
DIGESTIVE SYSTEM.
General. Digestion in large intestine of horse, 54; gastric juice of foals treated with histamine, 54; digestive system of the ox, 357.
See also Intestines, general; Liver; Rumen; Stomach.

DIGESTIVE SYSTEM—[cont'd.].
Diseases. Digestive disorders of cattle associated with leys and re-seeded pastures, **79**; lentin in atonic indigestion, **83**; pharyngeal dignathia in the calf, **234**; urinary calculi in horse, **357**; treatment of diabetic acidosis, **440**; horse transport and diarrhoeal diseases, **458**.
See also Stomatitis.
Flora. Significance of bacteria and protozoa in rumen of bovine, **23**; caecal flora of white rats and modification by succinysulphathiazole, **426**.
See also Rumen.
DISEASES GENERAL UNSPECIFIED. Polyglot glossary of communicable diseases, **49**; animal diseases ordinance, Palestine, **89**; infrequent diseases observed at the Poultry Pathological Laboratory, **108**; a contagious disease of cattle associated with leptospira, **346**; a new virus disease of poultry, **224**; maps of diseases, **231**; Colombian monkeys as reservoirs of tropical diseases, **231**; a virus disease of rabbits, **265**; control of infectious diseases in wild animals, **392**; tropical medicine, **438**.
See also Books, diseases general; New born Animals.
DISINFECTANTS. See Antibiotic Agents, disinfectants.
DISTEMPER.
General. Diagnostic significance of inclusion bodies, **223**.
In Dogs, **393**; control, **70**; "nervous distemper" in dogs, **188**; sulphonamide therapy, **245**; prophylactic against "distemper teeth" in dogs, **455**.
Immunization. In dogs, **70**, **327**; of foxes and dogs with ferret-passaged virus, **100**; immunological properties of dog distemper virus: vaccination of dogs, **149**; titration of immune serum for, **149**; use of distemperoid virus, **189**, **223**.
In Fur Animals, **91**, **154**; leucopenia preceding clinical symptoms in ferret distemper; control, in foxes, **223**.
DOGS.
General. Breaking killing habit, **129**; use during war, **327**.
See also Books, general; Poisoning, general; Technique, general.
Anthropod Parasites. See Mange; Parasites, general.
Bacterial Diseases. See *Bact. friedländeri*; *M. tuberculosis* Infection, in dogs, tuberculin test; *Past. tularensis*.
Diseases General. See Congenital Defects; Heart, diseases; Hysteria, Canine; Kidneys, diseases; Leucosis, in dogs; Liver, diseases; Lymphatic System, diseases; Neoplasms, general; Nervous System, diseases; Ovary; Paralysis; Skin, diseases; Therapeutics, general.
Fungous Diseases. See *Blastomyces* Infection.
Helminth Parasites. See *Echinococcus*; *Filariae*; Nematodes; Parasites, general; *Trichinella* Infection, immunity.
Physiology. See Blood, chemical composition, picture; Hormones, sex hormones; Congenital Defects; Spleen.
Poisoning. See Parasiticides, D.D.T.; Poisoning, metals, metalloids and salts.
Protozoan Diseases. See Babesia Infection; *Leishmania* Infection; Leptospira Infection, in dogs.
Research Work In. Experimental wound healing, **84**.
See also Blood, platelets; *Brucella* Infection, general; *Clostridium* Infection, general; Metabolism, general; Penicillin; Poisoning, general; Shock; Vitamins, B complex, E.
Virus Diseases. See Distemper; Rabies.
DOURINE. See *Trypanosoma equiperdum* Infection.
DROPSY. In cattle in Finland, **358**.
DUCKS. See *E. rhusiopathiae* Infection, general; Food Poisoning; Heart, diseases; Nutrition, general; *Pasteurella* Infection, in fowls; *Plasmodium* Infection, general; *Plas. relictum*; Poisoning, metals, metalloids and salts; *Str. viridans*; Therapeutics, of protozoan diseases.
"DUROSEPT." See Skin, general.
DYSENTERY. Amoebic dysentery in cats, **43**; bacteriophage therapy, **121**.
DYSTROPHY, MUSCULAR. See Muscles, diseases.

■

EARS.
General. Hearing changes in animals after decompression, **275**; ear muscles and cartilage of erect and drop-eared pigs, **367**.
Diseases. Otitis externa, **156**, **417**; surgical treatment of acoustic pathology, **417**.
EAST COAST FEVER. See *Theileria* Infection.
EBERTHELLA TYPHOSA, **57**, **84**; survival in cheddar cheese, **84**, **248**; influence of heavy water on, **424**.
ECHINOCOCCUS. Control in man, dogs, sheep and pigs in Holland, **15**; E. cyst in the omentum, **15**; *E. granulosus* in intestines of dogs, **192**.
See also Media, Culture.
ECTOTRICHOPHYTON MENTAGROPHYTES. Intraperitoneal inoculation of g. pigs with, **216**.
ECTROMELIA, INFECTIOUS. See Pox, in mice.
ECZEMA. See Skin, diseases.
EDUCATION. School of veterinary medicine, Institute of Oka, **176**; Veterinary Hygiene Institute, University of Prague, **176**; Faculty of Veterinary Medicine, São Paulo, **208**; Veterinary profession in Buenos Aires, **208**; teaching of chemical pathology, **331**; Red Army Veterinary School, **[illegible]**.
EGGS. Preincubation humidity variation effects on hatchability, **24**; temperature under broody hen, **24**; effect of reduced atmospheric pressure on hatchability, **180**; relation of time of day of artificial insemination to fertility, **80**; mechanism of penetration of saprophytic bacteria into, **284**; growth of mammalian tumours in, **309**; nutrition and egg production, **312**, **334**; development and hatchability of prematurely laid hens' eggs, **316**; bioelectric potentials and vital activity, **316**; failure of vitamin D and calcium in, **360**; influence of dietary calcium on porosity of egg shells, **441**, **442**; airspace in, importance for the chick, **445**; pasteurization of frozen eggs, **457**; pasteurization of liquid egg products, **458**.
See also Apparatus; Food Poisoning; Spermatozoa.
EGYPT. See Fowl Plague.
EIMERIA INFECTION [COCCIDIOSIS].
General. Natural infection and prevention, **427**.
In Deer, **98**.
In Fowls, **91**, **310**, **335**, **462**; diagnosis, **7**; in U.S.A., **130**; value of therapeutic agents for control, **281**; treatment with sulfamethazine, **282**; sulphamerazine therapy, **373**.
In Foxes. Of silver foxes, in Russia, **7**.
In Goats, **98**.
In Rabbits. In U.S.A., **98**.
In Sheep, **98**.
Treatment. By sulphur and sulphaguanidine, **7**; by sulphonamides, **57**; canine coccidiosis and treatment, **204**; recent advances in control of, in poultry, **345**; effect of sulphaguanidine on *Eimeria tenella* infection, **373**; chemotherapy, **373**; sulphaguanidine in swine coccidiosis, **410**; by sulphonamides, sulphapyrazine, **410**, **411**; effect of aryl arsonic acids, **411**.
EIRE. See Reports.
EL SALVADOR. See Horses, diseases general.
ELEUDRON. In treatment of *R. conjunctivae* infection, **177**.
EMBOLISM. Capillary fat-embolism in brain of sheep, pigs, monkeys, **75**; bubble formation in animals, **161**.
EMBRYOS.
General. See Oestrus.
Fowl. Pathogenesis of *Past. septica* in, **96**; *P. lophurae* infection of, **138**; inoculation of, with *P. gallinaceum* by mosquitoes, **138**; arrested development of the amnion in chick embryo caused by certain hormones, **447**.
See also Encephalomyelitis, Equine, virus; Influenza, virus; Pneumonia, Virus Caused; Pneumonia-Like Organisms; Pox, in birds; Spermatozoa; Technique, parasitological.
Mouse. See Neoplasms, general.
EMPHYSEMA. Of lymph nodes in cattle, pathogenesis, **19**; microscopic diagnosis of pulmonary emphysema, **357**.
See also Horses, diseases general.
ENCEPHALITIS.
General. Studies on, **144**; epidemiology, in Canada, **221**; immunity following vaccination of mice, **300**; properties of Japanese B type encephalitis virus and vaccines, **300**; "sterile encephalitis" in laboratory animals, **311**; complement-fixation test for diagnosis, **347**; virus in blood of experimentally inoculated fowls and animals, **347**; in U.S.A., **347**; recovery of western equine encephalitis virus from *Culex restuans*, **348**.
Transmission, **144**; isolation of St. Louis virus from chicken mites, **45**; by *Ixodes persulcatus* and *I. ricinus*, **300**.
ENCEPHALOMYELITIS.
General. In mice, in Brazil, **224**.
Porcine [Tesohin Disease]. Research, **69**.
ENCEPHALOMYELITIS, EQUINE.
General, **33**, **35**, **60**, **177**, **462**; in U.S.A., **130**, **222**, **299**; histological evidence of, in Palestine, **100**; in man, in Canada, **221**; human cases of, **335**; contagious septicaemic encephalomyelitis of horses, in Hungary, **429**.
Diagnosis. Comparison of neutralization and complement fixation tests, **9**; physical and chemical character of spinal fluid in horses during infection with, **221**.
Immunization. Absence of haemagglutinins, **8**; prophylaxis, **45**; vaccination of man against, **221**; serum neutralizing antibodies in man, **221**; neutralizing antibodies, in horses and mules, in Brazil, **222**.
Transmission. By mosquitoes, **188**; by anthropods, **188**.
Treatment. By sodium iodide, **454**.
Virus. Recovery from chicken mites, **10**; experiments with viruses of rabies and equine encephalomyelitis, **44**; isolation of virus from a horse in Columbia, **45**; observations on a strain of, **45**; neutralization by antiserum and effect of complement, **68**; behaviour in duck embryo, **68**; clinical study of virus, **188**; effect of thiourea on, **245**; in blood of experimentally inoculated chickens, **299**; effect of aspergillic acid on, **322**; com-

ENCEPHALOMYELITIS, EQUINE—Virus—[cont'd.].
parative sensitivity of virus neutralization tests in chick embryos and mice, 348; collodion particle adsorption of, 429; serologic distinctness of eastern, western and Venezuelan, 429; neutralization of Venezuelan virus by human sera, 429.
"ENCEPHALOSIS." Of foxes, 148.
ENDOCRINE SYSTEM. Metabolic functions of, 21.
See also Hormones; Spleen.
ENDOSPORES. Formation by *B. mycoides*, 180.
ENTAMOEBA INFECTION. Decrease in pathogenicity for kittens during prolonged *in vitro* cultivation, 42; bacteriological basis of amoebic dysentery in cats, 43; studies on *Entamoeba histolytica*, 344.
ENTERITIS. Of turkeys associated with *Cochlosoma* sp., 138.
ENTEROTOXAEMIA. See *Clostridium* Infection.
ENZYMES, 21; a sucrose-splitting ferment in small intestine of cattle, 23; bacterial proteases, 40; function of autolytic enzymes in bacteriolysis by penicillin, 81; effect of enzyme inhibitors on multiplication of typhus rickettsiae, 101; active enzyme preparations from bacteria, 173; proteolytic enzyme of Group A streptococci, 385.
See also Semen.
EPHEMERAL FEVER. In cattle, in Australia, 74.
EPITHELIOMA. See Neoplasms, causation.
ERGOT. Natural occurrence in India, 216.
See also Poisoning, general, plants; Uterus.
ERITREA. See *Aspergillus* Infection; *Babesia* Infection, general; *Brucella* Infection, in goats, in man, in sheep; *Leishmania* Infection; *M. tuberculosis* Infection, bovine type, in cattle; *Pasteurella* Infection; *Spirochaete* Infection; Venoms; Zootechny.
ERYSIPELOTHRIX RHUSIOPATHIAE. Isolation from farm-raised mink, 95; antigenic structure of, 423.
ERYSIPELOTHRIX RHUSIOPATHIAE INFECTION [SWINE ERYSIPELAS].
General. Epidemiology of, in the pigeon after peroral infection, 38; in ducks, 39; in swine slaughtered compulsorily, 133; plate agglutination test for, 256; in pheasants, 387.
Human Infection, 4; in swine and man, cutaneous lesions, 256.
Immunization. Of ducks with antiserum, 39; vaccination, 339.
Treatment. By sulphonamides in experimental infection in mice, 121, 370; of experimental infections by penicillin, 203.
ERYTHROBLASTS. See Bone Marrow.
ERYTHROCYTES. See Blood, corpuscles [Red].
ESCHERICHIA COLI, 40, 57, 427; effect of incompletely inhibitory concentrations of penicillin on, 340; inhibition of growth, 167; survival 14 years of, 424; time of appearance of mutant, 427.
ESCHERICHIA FREUNDII, 88.
ETHER. Release of antigen from bacteria treated with, 305.
EUTHIOSOL. See Antibiotic Agents, general.
EYES.
Diseases, 177, 334; contagious opthalmia of sheep, especially infection by *Rickettsiae conjunctivae*, 189; *Dirofilaria immitis* in, 308; opthalmia in cattle, 155; ocular disturbances in riboflavin deficiency, 362.
See also Keratitis; Ophthalmology; *R. conjunctivae* Infection.

FAECES. Of flies, transmitting anthrax, 213; in transmission of infective hepatitis, 302; examination for diagnosis of schistosomiasis, 460.
See also Metabolism, general; Strongyles.
"FARMA 939." In chemotherapy of trypanosomiasis, 410.
FASCIOLA. *Fasciola hepatica* in Uruguay, 192.
See also Helminth Parasites.
FERRETS. See Distemper, immunization, in fur animals; Influenza, general.
FERTILITY. Assessment by semen analysis, 24; polygamous mating of foxes, 90; prolificacy in swine, 162; comparative fertility of mares bred at foal and non-foal heat, 163; fertilization as influenced by length of life of sperms, 316; dietary requirements, 361; of Argentine racehorses, 407; seasonal variation, in bulls, 407; prediction in cattle, 445.
See also Eggs; Oestrus; Semen; Sterility; Vitamin E.
FIJI. See Fodder; Reports.
FILARIAE. Periodicity in war dogs, 17; specificity of intradermal tests in diagnosis of filariasis, 305; syndrome, tropical eosinophilia and microfilaria, 153; hump-sore, 229; report of Illinois State Veterinary Medical Association on canine filariasis, 229; *Filaroides osleri* in dogs, 229; *Dirofilaria immitis* in the eyes, 308; verminous broncho-pneumonia of sheep, 354; serological relationship between antigenic extracts of *Wuchereria bancrofti* and *Dirofilaria immitis*, 354; canine filariasis, 436.
See also Anthelmintics, for dogs; Immunology, agglutination; Technique, parasitological.
FILTRATION. See Technique, general.
FINLAND. See *B. anthracis* Infection, general; Brucella Infection, in horses; Dropsy.
FISH. Fish-carried parasites, in Canada, 152.
FISTULAE. In horses, 268, 315.
FISTULOUS WITHERS. See *Actinomyces bovis*.
FLAVICIN. See Antibiotic Agents, plant products.
FLEAS. Attempted transmission of tularaemia by, 424.
FLEECES. Fibre characteristics of fleeces of sheep, 52; biology of fleece of the sheep, 363.
FLIES. Life history of *Musca planiceps* Weid, 192.
See also *B. anthracis* Infection, transmission; Insecticides; *R. conjunctivae* Infection; *S. pullorum* Infection, general; *S. typhi-murium*; *Spirurids*.
FLUORINE. In rock phosphate fed to livestock, 77; fluorine effects in nutrition of sheep, 278; alopecia caused by 318.
FOALS. See Digestive System; Joint-ill; *Pfeifferilla mallei* Infection; Technique, general.
FODDER. Provision of fodder in West Indies, Hawaii, Fiji, Gold Coast, Nigeria, Sudan, Zanzibar and Rhodesia, 50; mould deterioration, 249; storage of oilcakes, experiments with sulphonamide and propamidine preservatives, 249; mineral constituents, 358; utilization by sheep, 381; carotene content, 403.
FOETUS. Immunity of, 102; malformations of c.n.s. in 440; effect of diseases of the mother on, during pregnancy, 440.
See also Hamsters.
FOLIC ACID. See Vitamins, B complex.
FOOD INSPECTION.
General. Methylene blue food utensil test, 172.
Meat, 60, 418; criteria for, in generalized TB, 30; in Russia, 59; is sour fermentation of meat non-bacterial? 85; in Germany, 127; and actinobacillosis, 294; control of *Brucella* Infection in relation to, 389; bone TB, in Germany, 172; Smithfield meat market, 457; odorous sausages, 457.
See also Food Poisoning; *M. tuberculosis* Infection, meat inspection.
FOOD POISONING, 416; prevention of bacterial food poisoning by food preservation methods, 30; by staplylococcus and streptococcus, in U.S.A., 31; salmonellosis from ducks' eggs, 60; salmonellosis, 64; Salmonella in dried egg powder, 64; meat poisoning statistics in Germany, 1942, 85; by D.D.T., 201; identification of pathogenic bacteria in meat, 249, 377; bacteria of salted intestine, 249; intestinal diseases versus ranch technique, 249; *S. tennessee* in frozen whale and powdered egg, 284; meat poisoning in Baltic countries, 326; *Staph. aureus*, *S. enteritidis* and streptococci in canned meat products, 327; *Salmonella* in food in Mexico, 327; action of bacon-brines on pathogenic bacteria, 377; in man from duck egg, 377, 457.
See also Butter; Cheese; Technique, bacteriological.
FOOT AND MOUTH DISEASE.
General. In India and Burma, 86, 252; epizootiological aspect, 140; in Denmark, 298; development of lesions of, 298; in Austria, 392; entry of veterinary surgeon to infested farms, in Germany, 392.
Control. Alkaline ash solutions as disinfectants, 59; international control by vaccination, 219; nature and control of, 347.
Diagnosis. Conglutination reaction, 298.
Immunity. Antiserum prepared in horses, 9; Waldman vaccine for, in Italy, 140; serum prepared in horses, experimental studies on g. pigs, 187; vaccination, 219; immunization of 80,000 animals with Waldmann vaccine, 298; Federal Vaccine Institute, Basle, 428.
In Man, 186.
Treatment. By blood plasma injection, 187.
Virus. Type differentiation, 8; change of type, 428.
FOOT. Effect of painful lesions on dorsal foot reflexes in the dog, 156.
FOOT ROT. Agglutination test for diagnosis, in reindeer, 185; in sheep, 294; control, in sheep, in Norway, 357.
FORMALIN. In avian leucosis, 107.
See also Influenza, Swine.
FORSSMAN ANTIGEN. See Plasmodium Infection, immunity.
FOWL CHOLERA. See *Pasteurella* Infection, in fowls.
FOWL PARALYSIS. Demonstration of infective agent, 18; infectivity of fowl tissue suspensions, 74.
FOWL PLAGUE. Adsorbate vaccine for atypical fowl plague, 265; in Egypt, immunization, mouse neurotropic fixed virus, 349; control with spirocid sodium, 411.
FOWL POX. See Pox, in birds.
FOWLS.
General. Poultry husbandry in hot climates, 274; effect of diet on mortality, on vitamin A metabolism, 310; nutrition and egg production, 312; pantothenic acid and fertility, 336; lymphatic system, 408; list of poultry books, 461.
Arthropod Parasites, 93; chicken bug, *O. toledoi*, 226.
See also Arthropod Parasites.

FOWLS—[cont'd.].
Bacterial Diseases. See *M. tuberculosis* Infection, bovine type; *Salmonella*, general; *S. gallinarum*; *S. pullorum*; *Spirochaeta* Infection, avian; *Streptococcus* Infection, in fowls.
Diseases General, 94, 309; deficiency diseases, **93**; infectious diseases of, **194**.
See also Blue Comb Disease; Bones, diseases; Diseases General, Unspecified; Neoplasms, general, causation; Respiratory System, diseases; Sulphathiazole; Vitamin A.
Helminth Parasites, 93; helminth parasites of poultry, **277**.
See also Phenothiazine.
Physiology. See Biochemistry; Hormones; Insemination, Artificial; Water.
Poisoning. See Poisoning, metals, metalloids and salts, plants; Sulphonamide Compounds, toxicity.
Protozoan Diseases. See *Eimeria* Infection; *Plasmodium gallinaceum*; *Plasmodium lophurae*; *T. rhodesiense*.
Virus Diseases. Symposium on virus diseases of poultry, **393**; a new virus disease of poultry, **224**.
See also Fowl Paralysis; Fowl Plague; Newcastle Disease; Viruses, general.
FOXES. Polygamous mating of, **90, 175**.
See also Anaemia; Beri-Beri; Distemper; *Eimeria* Infection; "Encephalosis"; Mange, general; Oestrus; *Past. tularensis*; Rabies, control; Therapeutics, of parasitic infestations; Vitamin A.
FRACTURES. See Bones, fractures.
FRANCE. See *Leptospira* Infection, general; Strongloides.
FROGS. See Helminth Parasites, general.
FUNGI. Bacteriostatic activity of a macroscopic fungus, **82**; effect of some antibiotics on pathogenic fungi, **244**; role of fungi in pulmonary disease, **295**; classification of fungus infections, **295**; fungi destroying nematodes, **436**.
See also *Blastomyces*; Chromomycosis; *Dermatophytes*; *Ectotrichophyton mentagrophytes*; Ergot; Milk, general; *M. tuberculosis*, avian type; Pityriasis; Poisoning, plants; Ringworm; *Saccharomycopsis guttulatus*; Skin, diseases; Spores; *Sporotrichon* Infection; Technique, general.
FUSIFORMIS NECROPHORUS INFECTION. Biological diagnosis of necrobacillosis, **185**.
See also Foot Rot.

G

GALLSTONES. In dogs, **400**.
GAME. Control of *Glossina morsitans* by game destruction, **152**; calcium cyanamide poisoning of, **278**.
See also Rinderpest, control; Wild Animals and Birds.
GAMMEXANE, 205, 411; toxicity of, **241, 368**; gamma isomer of, **282**.
GAS GANGRENE. See *Clostridium* Infection.
GASES, POISONOUS. Acute poisoning (in man) due to petrol vapour, **25**; mustard gas, **26, 59**; chemical defence experimental station, **201**.
GEESE. See Pneumomycosis; *Str. viridans*.
GELATIN. Use in influenza red cell agglutination test, **220**.
See also Blood, plasma; Shock.
GENITAL SYSTEM.
General. Development of reactivity in accessory reproductive organs of castrated and spayed rats injected with testosterone propionate, **277**; histological studies of boar testes, **277**; anatomy of sex accessories of male rabbit, **277**.
See also Fertility; Oestrus; Semen; Uterus.
Diseases. TB of, in bovines, **2**; of cattle, **75**; genital disease in swine from eating mouldy corn, **117**; bovine granular vaginitis, **269**; puerperal diseases of cows, **357**; treatment of metritis with surfon-iodine mixture, **375**.
See also Uterus; Vagina.
GERMANY. See Anaemia, Equine Infectious; *B. anthracis* Infection, general; *Brucella* Infection, control; Carcass Disposal; Food Inspection, meat; Food Poisoning; F and M Disease, general; Horses, general; Law, Germany; *Leptospira* Infection; *Mycobact. Johnei* Infection; *M. tuberculosis* Infection, meat inspection; Pityriasis; *Salmonella* Infection, general; Services, Veterinary; *Spirochaeta* Infection, avian; Technique, general; *Trichinella* Infection.
GESAROL. See Insecticides.
GLANDERS. See *Pfeifferella mallei* Infection.
GLOBIDIUM LEUCKARTI INFECTION. In a horse, **7**.
GLOMERULONEPHRITIS. See Kidneys, diseases.
GLOSSINA. New sub-species from Uganda; tsetse flies, **114**; tsetse flies and trypanosomes, **390**; control of *Glossina morsitans* by game destruction, **152**; tsetse fly traps, and studies on trypanosome infection, **307**; tsetse control, **332**; tsetse in Uganda, **333**.
GLUCOSE. See Bacteria General, growth; *Cl tetani* Infection.
GLYCERIN. Effect of water and rabbit serum on toxic and antigenic properties of, **408**.
GLYCOCYAMINE. See Muscles, diseases.
GLYCOGEN. Bacterial, **63**.
See also Nematodes.
GOATS. Their value and diseases, **108**; and rinderpest, **147**; friend or foe? **175**; in tsetse areas, **462**.
See also Congenital Defects; Insemination, Artificial; Keratitis; Lactation; Mange, general, treatment; Oestrus; Phenothiazine; Poisoning, plants; Rabies, transmission; Rinderpest, general; Trichostrongles.
GOITRE. Iodine prophylaxis, **169**; congenital goitre in lambs, **362**; in pigeons, **441**.
GOLD COAST. See Fodder; Reports.
GONADOTROPIN. See Hormones, sex hormones; Oestrus.
GRAMICIDIN, 202.
GRASS SICKNESS. In Great Britain, **231**.
GRASSHOPPERS, 104; a potential danger to turkeys, **50**.
GREAT BRITAIN. See "Blue Comb" Disease; Food Inspection, meat; Grass Sickness; Jaagsiekte; Law, Great Britain; Milk, pasteurization; Reports; *Trichinella* Infection, general.
"GREIFSWALD." See Mouse Pneumonia.
GRENADA. See Reports.
GREY LUNG VIRUS. Grey lung virus pathogenic for rodents, **430**.
GROWTH. Effect of ergot, **25**; stimulation of hair growth in a horse after mange, **83**; effect of inbreeding on, **164**; and healing of bone, **239**; role of *p*-aminobenzoic acid and inositol in, **361**; uneven hair growth in cattle, **401**; growth factor in vegetable juices, **444**.
See also Books, biology.
GUINEA PIGS.
General. See Nutrition, general.
Diseases. See Neoplasms, causation.
Research Work In. See *B. anthracis* Infection, immunization; Blood, corpuscles [White], picture; *Brucella* Infection, immunization; *Cl. welchii*; *Ectotrichophyton mentagrophytes*; F and M Disease, immunity; Hormones, sex hormones; Immunology, anaphylaxis, complement, toxins; *Leptospira* Infection, general; *M. tuberculosis*, tuberculin; *M. tuberculosis* Infection, diagnosis; Pituitary Gland; Poisoning, general, metals, metalloids and salts; *Rickettsia* Infection; Technique, bacteriological; Vitamins, C.

H

HABRONEMA. See *Spirurids*.
HAEMAGGLUTINATION. See Immunology, agglutination.
HAEMATOZOA. Blood parasites of turkeys, **392**.
HAEMATURIA Enzootic bovine haematuria; effect of bovine blood on urinary bladder, **107**; in calves, in Australia, **195**; in cattle, in Italy, **222**; bovine chronic haematuria, feeding experiments, **269**; puerperal haemoglobinuria, **271**; parturient haemoglobinuria, **359**.
HAEMOGLOBINURIA. See Haematuria.
HAEMONCHUS, 48, 177, 287, 332, 334, 336, 374, 381, 463; blood picture in H. infections, **16**.
HAEMOPHILUS GALLINARUM. Growth, **336**.
See also Media, Culture.
HAEMOPHILUS INFLUENZAE, 184; sensitivity to penicillin, **121**.
HAEMORRHAGIC SEPTICAEMIA. See *Pasteurella* Infection.
HAEMOSTASIS. See Blood, platelets.
HAIR. See Growth.
HAMSTERS, 100; development during the first nine days, **81**; susceptibility to tularemia, **134**; the care, breeding habits, and vaginal smear cycle of, **331**.
See also *Leptospira* Infection, general; Nutrition, general; Sulphamerazine.
HAPLOSPORANGIUM INFECTION, 41.
HARE LIP. See Congenital Defects.
HARES. See Helminth Parasites, general; Myxoma.
HARNESS. Yokes and yoke galls in cattle, in India, **231**.
HAWAII. See Fodder; Myiasis; Nematodes.
"HEAD GRIT," 61.
HEART
General, 398; early development of sheep's heart, **447**.
See also Anatomy.
Diseases. Calcification of heart muscle in ducklings, **19**; in *Clostridium* infection, **215**; spontaneous myocarditis in dogs, **233**; aetiology of fatal syncope, in pigs, **269**; of the horse, **311**; cardiovascular insufficiency in horses, **311**; cardiovascular pathology, experimental atheromatosis in dogs, **311**; aneurysim of aorta and disease of heart muscle in a horse, **439**.
See also *M. tuberculosis* Infection, in horses; Myocarditis.
HEARTWATER. See *Rickettsia ruminantum* Infection; Technique, parasitological.
HELMINTH PARASITES.
General, 61, 382; of fur animals, **14**; infection in man from domestic animals, **14**; *C. bovis* in oesophagus of cattle, **15**; in pigeons, **38**; parasitic worms of hares, rabbits, rats and mice, **47**; Leuckart's drawing of the

HELMINTH PARASITES—General—[cont'd.].
muscle fluke of swine, 48; bionomics of the lymnacid snail, intermediate host of the liver fluke in Texas, 48; muscle fluke of pigs in frogs, 73; hydatid incidence in cattle and sheep in New Zealand, 73; parasitic lesions of lamb livers, 103; fish-carried parasites, in Canada, 152; in Scottish hill sheep, 192; helminth parasites of poultry, 227; helminth infestations in relation to snowshoe hares, 267; helminths of N. American deer, 308; incidence of bovine helminths, in Nigeria, 353.
See also Ascarids; Cestodes; Liver, diseases; Nematodes; *Strongloides*; Technique, parasitological; Trematodes; *Trichinella* Infection; Trichostrongyles.
Control, 36, 381, 461, 462; of sheep, 14; in sheep, in U.S.A., 17; freeing horse-breeding farms in Russia from helminths, 48; action of disinfectants and temperature on larvae of *Dictyocaulus filaria*, 73; action of sulphonamides on, 169; control of liver flukes in cattle, 283.
See also Anthelmintics.
Diagnosis. See Cestodes.
Eggs. Defective eggshell formation by *Schistosoma mansoni*, 14.
See also Echinococcus; *Haemonchus*; *Parascaris*; Strongyles; *Strongyloides*.
HEPATITIS. See Jaundice.
HEPATOMA. See Neoplasms, causation.
HEREDITY. And TB, 63, 95, 132; of bovine leucosis, 153; genetic resistance to disease, 154; of cancer in mice, 355, 437; hereditary sperm groups, 315.
See also Achondroplasia; Congenital Defects; Diathesis; Immunology, immunity (general); Joints; Neoplasms, causation.
HERMAPHRODITISM, 35.
HERPES. See Panleucopenia.
HEXAMINE. In treatment of canine cystitis, 96.
HISTAMINE. "Anti-histamine" substances and tuberculin test, 151; in pneumonia, in cats, 195; effect on blood picture in horses, 270.
See also Digestive System; Horses, diseases general; *Trichinella* Infection, general.
HISTIDINE. See Blood, chemical composition.
HISTOPLASMA INFECTION. Canine histoplasmosis, 41.
HISTOPLASMIN, 295.
HOG CHOLERA. See Swine Fever.
HOLLAND. See *Echinococcus*; *M. tuberculosis* Infection, in man; Reports; *S. pullorum* Infection; Services, Veterinary.
HORMONES.
General. Influence on lymphoid tissue structure and function. Pituitary adrenotrophic hormone in regulation of lymphocytes, 55; pituitary hormonal unbalance, in cows, 113; effects of adrenocorticotropic hormone on osseous system in rats, 116, 117; influence of thyrotropic hormone on blood cholesterol of rabbits, 199; hormonal therapy in veterinary practice, 323; effect on glands, body weight of chicken, 446.
See also Embryos, fowl; Pituitary Gland; Thyroid Gland.
Sex Hormones. In reproduction, 21; excretion of ketosteroids and oestrogens in urine of sheep, 55; maintenance of spermatogenesis by testosterone, in rats, 80; ovarian hormones required to induce heat, 115; hormonal induction of heat in g. pigs 116; thermogenic effect of progesterone, 162; gonadotropin and pregnancy in ewes, 164; hormonal control of estrous phenomena in ewes, 164; D.B.E., a new synthetic oestrogen, 264; relation of gonadal hormones to certain dermatoses, 264; hormone therapy of cancer, 246; effect of testerone propionate on bitches, 315; as activators in spermatogenesis of adult males, 317; maintenance and restoration of spermatogenesis in hypophysectomized rhesus monkeys by androgen, 366; lactation in heifers produced by oestrogen implants, 366; relaxin, 367; biochemistry of steroid sex hormones, 407; absorption rate of implanted hormone tablets, 446; mechanism of hyperchlorosterolaemia and hypercalcaemia induced by oestrogen in chicks, 446; role of thyroid in response of ovary to gonadotropins, 446; action on vas deferens of the castrated cock, 446; relation of follicular hormone to feather form and pattern in the fowl, 446.
See also Bones, fractures; Genital System, general; Muscles, diseases.
HORN CANCER. See Neoplasms, spontaneous.
HORN FLY. See Siphona.
HORSES.
General. Loss statistics, in Germany, 74; direct blood transfusion, 88; horseshoes, nails and frost nails used in Swiss army, 251.
Anatomy. Abbreviated terminology for legs, 55; method for operating on pharynx and larynx of horses, 89.
Arthropod Parasites. See Insecticides.
Bacterial Diseases. See *B. anthracis* Infection, general, immunization; *Bact. equirulis*; *Brucella* Infection, in horses; *Clostridium botulinum*; *C. farciminosus* Infection; Immunology, toxins; Keratitis; *M. tuberculosis* Infection, in horses; *Pfeifferella mallei* Infection; Respiratory System, diseases; *Str. equi* Infection.
Diseases General. Journey of army horses to east front in winter 1941-42, 49; histamine content of blood of horses with chronic pulmonary emphysema, 74; big head of horses in El Salvador, 77; hypocalcaemia in mares, 314; cysts of the tongue, 439.
See also Bones, diseases; Fistulae; Heart, diseases; Intestines, diseases; Liver, diseases; *M. tuberculosis* Infection, in horses; Skin, diseases; Therapeutics, general.
Fungous Diseases. See Broncho-pneumonia; *Rhinosporidium* Infection.
Helminth Parasites. See Anthelmintics; Ascarids; Cestodes; Helminth Parasites, control; Parascaris; Phenothiazine; Strongyles.
Physiology. See Blood, chemical composition, corpuscles [Red], counts, plasma, transfusion; Bone Marrow; Digestive System; Encephalomyelitis, Equine, diagnosis; Fertility; Insemination, Artificial; Physiology; Sulphonamide Compounds, mode of action; Technique, general; Urine; Vitamins, F; Water.
Poisoning. See Bee Stings; Parasiticides, D.D.T.; Poisoning, plants.
Protozoan Diseases. See *Anaplasma* Infection, transmission; *Babesia* Infection, in horses; *Globinium leuckarti* Infection; *Trypanosoma* Infection; *T. equinium*; *T. equiperdum*; *T. Evansi* Infection.
Virus Diseases. See Anaemia, Equine Infections; Encephalomyelitis, Equine; F and M disease, immunity; Influenza, Equine; Rabies, transmission; Stomatitis, Vesicular; Viruses, neurotropic.
HOST-PARASITE RELATIONSHIP. Nutrition of host and natural resistance to infection, 135; reactions of tissues following infection, in environmental conception of nature of disease, 400.
HOTIS TEST. See Mastitis, Bovine, diagnosis.
HUNGARY. See Encephalomyelitis, Equine, general; Rabies, control.
HYALOMMA AEGYPTUM. Transmitting *Theileria* infection, 7.
HYALURONIDASE. Increasing fertilizing power of sperm, 198; production by micro-organisms, 305; effects on follicle cells of ovulated rat ova, 199.
HYDROCHLORIC ACID. As solvent for defluorinated phosphates used as phosphorus supplements to livestock, 271.
See also Mange, treatment.
HYDROCYANIC ACID. See Poisoning, plants.
HYDROGEN ION CONCENTRATION. Of culture media, 208; effect of pH of the medium on activity of streptomycin and penicillin, 320; influence on survival of coliforms and enteric pathogens exposed to chloramine, 456.
See also Technique, general; Therapeutics, of protozoan infestations.
HYDROGEN PEROXIDE. In treatment of grubs in mink, 103.
HYGIENE. See Carcass Disposal; Food Inspection; Insecticides; Milk, hygiene.
HYPERHYDROSIS. See Sweat.
HYPERPLASIA. See Myxoma.
HYPODERMA BOVIS. See Myiasis.
HYSTERIA, CANINE. Produced by baked foods and wheat gluten flour, 402; symptoms and treatment, 439.

I

ICTEROHAEMOGLOBINURIA, BOVINE. See *Leptospira* Infection, in cattle.
ICTERUS. See Jaundice.
IDENTIFICATION OF ANIMALS. Method adopted by Central Mediterranean Forces, 33.
IMMUNOLOGY.
General. Relation between production of bacteriophage and multiplication of lysins of *B. megatherium* cultivated in a hanging drop, 47; pathogenic and immunizing properties of S type acid-fast bacilli isolated from blood in TB of young persons, 95; inoculation of the dam for prevention of disease in young animals, 102; effect of immunization against lactobacilli and acidogenic cocci on tooth flora of rat, 295; intracellular oxidases in infection, 190; failure of immunity responses in localized disease, 266; Duran-Reynals spreading factor in staphylococci, 266; effect of Reynals factor on tuberculin reaction, 395; immunogenetic consequences of vascular anastomoses between bovine twins, 395.
See also Books, immunity; Neoplasms, immunity.
Agglutination. Absence of haemagglutinins in certain viruses, 8; of fowl erythrocytes by virus of infectious ectromelia, 9; a substance in animal parasites related to human isoagglutinogens, 14; cold isohaemagglutinins in primary atypical pneumonia and haemolytic anaemia, 101; Rickettsial agglutination, 101; plate agglutination test for swine erysipelas, 256; agglutination reactions in Chagas' disease, 217; use of gelatin in influenza red

IMMUNOLOGY—Agglutination—[cont'd.].
cell agglutination test, 220; Hirst haemagglutination reaction with influenza and Newcastle disease viruses, 431; chemical alteration of a bacterial surface with special reference to agglutination of *B. proteus*, 151; heterophile agglutinins and cold autohaemagglutinins in schistosomiasis, filariasis, malaria and leprosy, 151; specific agglutination of mixtures of collodion particles or bacterial cells with virus and anti-viral serum, 190; technic of collodion agglutination, 190; effect of a polysaccharide of *Ascaris suum* on blood agglutinins, 351; effect of photo-oxidation on isohaemagglutinating antibodies, 352; bacterial agglutination and haemagglutination, 434.
See also *Brucella* Infection, diagnosis, immunization; Foot Rot; and under name of specific disease and organism.

Allergy. Bacillary and tuberculin allergy and their relation to immunity, 132; attempt to sensitize against tuberculo-bacillary allergy, 132; prevention of brucella allergy in veterinarians, 215; state of allergy affecting Koch's phenomenon, 291; allergy in vaccinia, 151; mechanism of desensitization in allergy, 151; qualitative differences among canine danders, 305; histopathology of allergic skin reactions, 434; allergic reaction for diagnosis of coenurosis, 227; canine sensitivity to ascaris antigen, 354.
See also under name of specific disease.

Anaphylaxis. Influence of duration of sensitization on, in g. pigs, 191; pathology of, due to sulphonamides, 200; senile tuberculin anergy, 352; *in vitro* anaphylactic response to antigens, 434; alleviation of anaphylactic shock in g. pigs with synthetic benzhydryl alkamine ethers, 455.

Antibodies. In treatment of Murphy lymphosarcoma, 17; precipitin test for tuberculin antibodies, 47; comparison of sensitivity of extraneural and intracerebral routes of inoculation for detection of antibodies, 47; protective factors in heterospecific blood group pregnancy, 72; antibody response of swine to vaccination with inactivated swine influenza virus, 99; conveyed by milk, 102; antibody response in swine and swine influenza virus, 142; lack of antibody increase after 2nd injection of influenza virus, in man, 144; serum neutralizing antibodies in man in equine encephalomyelitis, 221; neutralizing antibodies of equine encephalomyelitis virus, 222; in rickettsia of epidemic and murine typhus, 350; production *in vitro* of substances resembling antibodies from bacteria, 151; effect of fever on humoral antibodies, 266; augmenting action of mineral oil on antibody response, 304; *in vivo* isosensitization of red cells in babies with haemolytic disease, 305; duration of antibody formation, 395; absence of antibody in the macrophages during maximum antibody formation, 433; effect of high pressure on haemagglutinating antibodies, 433; pituitary-adrenal cortical control of antibody release from lymphocytes, 433.
See also Neoplasms. immunity; Pneumonia, Virus caused.

Antigens. Immunological properties of albumin, 13; homologous and heterologous antigens of *S. pullorum*, 424; commercial antigen for diagnosis of elementary body types of viral infection, 393; complement fixation antigens of influenza viruses A and B, 429; diptheria toxoid pastilles by mouth, 150; reduced acute toxicity in saline-in-mineral-oil emulsion, 191; studies on A-antigenic polysaccharide from abomasum of cattle, 191; antigen-antibody reactions, 303; stability and absorption of antigens of *Bact. typhosum*, 304; antigen from bacteria treated with ether, 305; *in vitro* anaphylactic response to, 434; forces in reaction between antigen and antibody molecules, 434.
See also *Erysipelothrix rhusiopathiae*; *M. Johnei* Infection; *Salmonella* Group, antigents; Technique, parasitological; Venoms; and under specific disease and organism.

Antisera. For F and M disease, 9; from rabbits for treatment of lymphosarcoma, 17; for anthrax, 37, 180; titration of *Cl. welchii* antiserum, 72; provision of snake antivenom (serum antiviperin), 72; bacteriostatic effect of human sera on Group A streptococci, 385; serum immunizing pigs against swine fever and *Past. bubaliseptica*, 423; in treatment of influenza, 142; suppression of antigenicity of influenza virus by admixture of antiserum, 142; for dog distemper, 149; dog serums neutralizing poliomyelitis virus, 149; serum for F and M disease prepared in horses, 187; in equine encephalomyelitis, 188; a specific anti-infectious serum from horses, from an active or inactivated virus, 347; neutralization of Venezuelan equine encephalomyelitis virus by human sera, 429; reticulo-endothelial immune serum, action on spleen *in vitro*, 191; preparation of, 211; serum therapy in typhoid fever, 266; application of "lyophile technique" to biologic products, sera, antisera and antibody globulins, 303; a new serum for a new purpose, 304; virus-neutralizing power of serum, 304; titration of *Cl. oedematiens* serum by flocculation test, 304; precipitation of proteins from antitoxic horse plasma, 352; substance in human serum inhibiting staphylocoagulase, 435.
See also Newcastle Disease; Pneumonia, Virus Caused; *Rickettsia* Infection; and under specific disease and organism.

Complement. Comparison of human and g. pig complements, 13; action of, 13.

Complement Fixation. Applied to bovine TB, 4; in diagnosis of equine encephalomyelitis, 9; in control of bovine contagious pleuro-pneumonia, 42; reaction in Chagas' disease, 217; in influenza, 143; complement-fixation test for diagnosis of encephalitis virus infection, 347; in epidemic and murine typhus, 350; in scrub typhus, 432.

Immunity (General). Immunization by a species antigen; anti-immunity factor in *Pneumococcus*, 12; defence mechanism of hereditary resistance to pullorum disease, 40; typhoid fever in immunized personnel, 71; cross-immunity to *Str. equi*, 386; immunization against fowl cholera and TB, 225; cellular immunity in *Past. pestis* infection, 434.
See also under name of specific disease.

Immunity To Protozoa. To *P. gallinaceum*, 7; of *T. brucei*, 185; preparation of *Trypanosoma* antigen, 185; Weltmann reaction in malaria, 151.
See also Trichomonas Infection, in cattle.

Immunity To Viruses. Comments on immunity to virus diseases, 8; immune bodies in treatment of virus diseases, 13; immunological studies on the psittacosis-lymphogranuloma group of viral agents, 46; neutralization tests with neurotropic viruses, 47; duration of immunity against hog cholera induced by Boynton's tissue vaccine, 148; immunological properties of dog distemper virus, 149; vaccinal infection in the mouse, 187; immunology of certain virus infections, 219; of F and M disease, 219; a specific antiserum for, from horses, 347; interference between viruses in tissue culture, 351.
See also Distemper, immunization; Encephalitis, general; Immunology, agglutination; Rinderpest, immunization; Viruses, immunity; and under name of specific disease.

Precipitation. Precipitin test for tuberculin antibodies, 47.

Toxins. Antitoxin formation in serum of horses immunized with tetanus toxoid, 13; staphylococcal anatoxitherapy, 253, 385; detoxication of diptheria toxin, 150; antitoxin treatment of gas gangrene in g. pigs, 225; effect of low temperatures on antigenicity of tetanus toxoid, 266; antigenicity of *Cl. welchii* toxoid, 266; tetanus antitoxin in hyperimmunized cow, its milk and offspring, 304; development of staphylococcal antitoxin in animals injected with specific anatoxin, 352; diptherial toxoid purified by absorption, 352; effect of protein concentration on rate of denaturation of diptheria antitoxin by urea, 394; studies on anatoxins, 394; incidence of natural diptheria antitoxin in horses, 435.

Vaccines. Against sheep pox, 68; semi-liquid formol vaccine against brucellosis, 97; Waldmann vaccine for F and M disease, 140, 219; preparation of a dry vaccine against variola, 141; vaccinia virus, 141; Boynton's tissue vaccine for hog cholera, 148; scrub-typhus vaccine, 150; protective action of exanthematic typhus vaccines, 150; for equine encephalomyelitis, 188; inactivated poliomyelitis vaccine, 209; an adsorbate vaccine for atypical fowl plague, 265; typhus vaccines, 394.
See also *B. anthracis* Infection, immunization; *Brucella* Infection, immunization; Crystal Violet vaccine; Encephalomyelitis, Equine, immunization; F and M Disease, immunity; Immunology, antibodies; Influenza, treatment, virus; Influenza, Swine; Leucosis, avian; Fox, in birds; Rabies, immunization; Rinderpest, immunization; *Str. equi* Infection; Technique, bacteriological.

IMPETIGO CONTAGIOSA. Treated with sulphathiazole, 82.

INCLUSION BODIES. See Viruses, inclusion bodies.

INDIA. Animal nutrition, 21; animal husbandry in India, 89.
See also Arthropod Parasites; Biochemistry; *Brucella* Infection, in man, in cattle, in sheep; *C. farciminosus* Infection; Ergot; F and M Disease; Harness; Keratitis; Law, India; *M. Johnei* Infection; Nematodes; Neoplasms, spontaneous; Nutrition, general; Parasiticides, general; *Past.* Infection, in bovines; *Pfeifferella mallei* Infection; Placenta; Rabies, general, control; Rat-Bite Fever; Reports; Rheumatism; Rinderpest; Services, Veterinary; Slaughter; *Theileria* Infection; Trematodes; *T. evansi* Infection; Zootechny.

INFLUENZA.
General. In rabbits, 133; effect of environmental temperature on, in mice, 187; study and control, 220; in ferrets, 220; aetiologic relationship to infectious pneumonia, 265; periodicity, in U.S.A., 299; and pregnancy, 440.
Treatment. Immunity, 8; serum treatment, in man, 13; inhalatory route for, 142; by immune serum, 142; vac-

INFLUENZA—Treatment—[cont'd.].
cination, 143; lack of antibody increase after 2nd injection of virus, in man, 144.
Virus. Research on—cultivation of causal agent Ib of "mouse pneumonia," 10; isolation by chick embryo inoculations, 68, 220; identification, 142; concentration and purification for vaccines, 142; suppression of antigenicity of, by admixture of antiserum, 142; precipitation of purified virus and vaccine on calcium phosphate, 144; effect of temperature on susceptibility of chick embryo to, 187; susceptibility of cane rat and bush rat to, 187; the O-D change in influenza virus A, 187; method of isolation from throat washings, 188; densities and sizes of, 220; toxicity of virus, 220; antigenic relationship of human and swine influenza viruses, 299; purification and concentration, 299; preparation of PR8 virus from infected mouse lungs, 299; precipitin reactions of, 429; complement fixation antigens of viruses A and B, 429; direct isolation in chick embryo, 429.
See also Immunology, agglutination; Technique, viruses.
INFLUENZA, EQUINE. Infectious diseases of equine influence group and turpentine therapy, 155.
INFLUENZA, SWINE. Antibody response of swine to vaccination with inactivated swine influenza virus, 99; antibody response in swine to swine influenza virus inactivated with formalin and ultraviolet light, 142; densities and sizes of virus, 220; antigenic relationship to human influenza virus, 299.
INOSITOL. See Vitamins, B complex.
INSECTICIDES. Fly sprays and repellants, 83; control of fly pest in food establishments, 123; solyar oil treatment of lice of horses, 123; stability of lime-sulphur in sheep dips, 204; power dusting for winter control of sheep tick, 205; resistance of mange mites to, 205; gesarol, fly spray, 245; lice control, 306; insecticidal value of *Euphorbia dendroides*, 411.
See also Gammexane; K-Preparation; Parasiticides; SK-Preparation.
INSEMINATION, ARTIFICIAL, 60, 61, 80, 93, 236, 317, 418; of buffaloes, 172; of horses, 163, 237; of livestock, 316; of cattle, sheep, goats, 316; sperm transport through the cervix uteri of rats, 198; percentage conception in artificial and natural breeding, 199; effect of sperm concentration in, 237; effects of different methods, 238; intraperitoneal insemination of fowls, 238; future of, 366.
See also Apparatus; Spermatozoa; Zootechny.
INSULIN. Therapy of equine myoglobinuria paralytica, 155.
INTESTINES.
General. Intestinal lactic acid and ascorbic acid contents of cattle, 23; motility, 23; a sucrose-splitting ferment in, in cattle, 23; motor function of gastro-intestinal tract, of horses, 315.
See also Digestive System.
Diseases. Intestinal calculi in horses and operative removal, 155.
See also Food Poisoning; Poliomyelitis.
IODINE. Germicidal action, 59; extrathyroidal metabolism of iodine, 117; prophylaxis of goitre, 159; iodinated proteins, 272; increased germicidal activity in presence of oxidation-reduction system, 324; antibacterial properties, 324; in skin disinfection, 413; as aerial disinfectant, 457.
See also Urea.
IRON. Role of iron in the body, 198.
See also Anaemia.
ITALY. See Arthropod Parasites; F and M disease, immunity; *Leptospira* Infection, in dogs.

J

JAAGSIEKTE. In Palestine, 400; in Scotland, 430.
JAMAICA. See Reports.
JAUNDICE. In U.S.A., relation to yellow fever vaccination, 11; infectious hepatitis in U.S. Army, 149; Aetiology of infectious hepatitis, 149; transmissible disease in rats inoculated with infective hepatitis, 224; human transmission of infective hepatitis, 302; period of infectivity, 302; precipitation test in infective hepatitis, 302; inactivation of etiologic agent in serum by ultraviolet irradiation, 350; milk-borne infectious hepatitis, 350; transmission to canaries, 350; icteric condition in hogs in U.S.A., 400; following yellow fever inoculation, immunology, 431; inoculation hepatitis, 431; canary as experimental medium in research, 432.
JAUNDICE, TOXAEMIC, 91; in sheep, 359.
JOHNE'S DISEASE. See Mycobact. Johnei Infection.
JOHNIN. See *Mycobact. Johnei* Infection.
JOINTS. Hereditary congenital flexed pasterns in Jersey cattle, 76.
JOINT-ILL. In foals treated with sulphathiazole, 26; in foals, 268.

K

K-PREPARATION, 464; history and method of manufacture of K-preparation (Bisethylxanthogen), 322; for control of pediculosis, 323.
KALE. See Poisoning, plants.
KERATITIS. In goats, in India, 18; in horses in Fiji, 61; study of bovine infectious keratitis, 154; caused by hairs of caterpillar, 312.
KIATING PARALYSIS, 448.
KIDNEYS.
Diseases. Pathology of kidneys in equine infectious anaemia, 45; in lead poisoning, 56; experimental nephropathies, 76; amyloid infiltration and renal disease in mice, 109; metabolism of proteins in hepatico-renal syndrome, 110; pathogenesis of glomerulonephritis, production in rats by auto antibodies, 195; acute nephritis in dogs, 401; cortico-epinephrosis in cachetic cats, 405; effect of renal vein occlusion on blood pressure of dogs, 314.
See also Man, diseases general; Sulphadiazine.
KNOPVELSIEKTE. In cattle, 222.
KOCH'S PHENOMENON. See *M. tuberculosis* Infection, immunization.

L

LACTATION. Galactopoietic action of pituitary extracts in lactating cows, 52; induction in goats and cows with synthetic oestrogens and anterior-pituitary extracts, 53; reduction in, following *Br. abortus* vaccines, 183; preportum milking, 235; hormonal influence, 331; effect of iodinated casein, 334; role of *p*-aminobenzoic acid and inositol in, 361; induced in heifers by oestrogen implants, 366.
See also Agalalatia; Nutrition; Vitamins, B complex.
LACTIC ACID. See Stomach.
LACTOBACILLUS. See Bacteria General, growth; Immunology, general.
LAMBS. Tailing of, 330.
See also Ataxia; Liver, diseases; Poisoning, plants; Strongyles.
LAMENESS. Causes, 269; hereditary lameness in Danish cattle, 358.
LARYNGITIS. Chronic ovine laryngitis, 107.
LARYNGOTRACHEITIS. In fowls, 50.
LARYNX. Inflammatory oedema of, 107.
LATEX. In preparation of corrosions of mammary glands, 129.
LAW.
Germany. See *Brucella* Infection, control; F and M Disease, general; *M. tuberculosis* Infection, meat inspection; *Salmonella* Infection, general.
Great Britain. Improvement of Livestock Regulations, 1945, 129.
India. Notification and quarantine rules, 129.
Palestine. Animal Diseases Ordinance, 89, 129.
Sweden. Control of TB, 3.
Switzerland. See Anaemia, Equine Infectious, control.
In U.S.A. See Services, Veterinary; *Trichinella* Infection, general.
LEAD. See Poisoning, metals, metalloids and salts.
LEISHMANIA INFECTION, 62; of a squirrel, in Morocco, 5; in dogs, in Manchukuo, 67; serological diagnosis, in dogs, 67; in man and dogs, in Morocco, 137; in dogs, in Portugal, 218; penicillin treatment, 245; in dogs, causing paralysis, 296; experimental canine cutaneous leishmaniasis, 296; in dogs, in Eritrea, 344.
LENTIN. For atonic indigestion of cattle, 83.
LEPROSY. Promin treatment, 280.
See also Immunology, agglutination.
LEPROSY, RAT. Experimental infection of *Ambiyomma cajennense* with rat leprosy bacillus, 214.
LEPTOSPIRA INFECTION.
General, 33; and yellow fever vaccination, 11; in Muridae, in Germany, 67; in the British Army in France, 186; susceptibility of mouse to, 261; studies on *leptospira;* demonstration of lysins: *L. suis* as cause of Weil's disease, 297; first isolation of 2 strains of *L. bonariensis*, 297; subconjunctional route for transmission in g. pigs, 347; influence of amino acids on growth of *L. canicola*, 392; a new type, *L. saxkoebing*, 392; pathogenesis of, in g. pigs and hamsters, 427.
In Cattle. Leptospira in bovine icterohaemoglobinuria, 140; bacteriological and clinical investigations, in U.S.S.R., 219; in U.S.A., 334; a contagious disease of cattle associated with, 346.
In Dogs. In Antigua, B.W.I., 43, 346; control in war dogs, 44; infection of man from, 261; in Argentine, 297; agglutinins in sera of dogs, in Milan, 346.
Diagnosis. In man, 67; in brown rats, 297.
Treatment. Of canine leptospirosis, 347.
LEUCAEMIA. See Leucosis.

LEUCOPENIA. Effect of liver extract and methyl acetamide on, 413.
LEUCOPENIA, INFECTIOUS, FELINE. See Agranulocytosis, Feline Infectious.
LEUCOSIS.
Avian, 35, 62, 108, 334; incidence of lymphomatosis in chickens, 107; lymphomatosis in chickens induced by diallel crossing, 107; experimental vaccination, 107; effect of environment on, 194; fowls bred for resistance to, 194; natural transmission, 268; blood picture in, 309; histopathological study of depigmented irises from fowls, 356; development of malignant tumour strains from, 399; experimental transmission, 399; factors influencing stability of a filtrable agent of, 438.
Bovine. Heredity and control, 153; blood examination, 398.
In Dogs. Canine leucosis, 193.
In Man. Treatment with urethane compared with deep X-ray, 376.
LEVERHULME TRUST. W. Africa Commission 1938-39, technical reports, 34.
LEYS. See Digestive System, diseases.
LICE, 176, 334; louse infestation of cattle, 395.
See also Insecticides; K-Preparation; Parasiticides, general; Phenothiazine; Technique, parasitological; Therapeutics, of parasitic infestations.
LIGHT. Effect on aromatic diamidines, 26.
LIMA BEANS. See Poisoning, plants.
LIONS. See *Past. pseudotuberculosis* Infection.
LIPIDS AND LIPOIDS. For protection of animals against *Cl. welchii*, 426.
LIPASE. Distribution in tissues, 406.
LIPEROSIA. See Siphona.
LISTERIA INFECTION.
In Goats. Spontaneous listerellosis in, 63.
In Man. Listeria meningitis, due to *Listeria minocytogenes*, 39.
LISTERIA MONOCYTOGENES. See Listeria Infection, in man.
LITERATURE. Guide to literature of veterinary medicine, 176; list of poultry books, 461.
LIVER.
General. Sulfhydral protection of, 207; basophilic bodies in hepatic cells, 365.
See also Anatomy; Phosphorus; Technique, general; Vitamin A.
Bile. Choleretic action of the allyl ester of cinchopen, 319.
Diseases. Hepatic injury in rats by feeding maize-meal and sour milk, 19; cirrhosis in dogs fed high fat diet, 20; hepatic lesions and experimental hyperthyroidism, 54; parasitic lesions of, in lambs, 103; enlargement in a cow due to hydatid cysts, 103; cirrhosis due to ascaris toxin, 105; effects of D.D.T. poisoning on, 118; histologic changes in, in equine infectious anaemia, 146; hepatic necrosis caused by sulphadiazine, 200; in *Clostridium* infections, 215; lipoidal hepatic granuloma in rats, 229; absorption of scar tissue in experimental nodular cirrhosis of liver, 311; formol-gel test in hepatic and renal affection of dog, horse and ox, 356; dietary cirrhosis of rats, 361; gallstones in dogs, 400.
See also Jaundice; Man, diseases general; Nutrition, diseases; Poisoning, metals, metalloids and salts.
LIVESTOCK POPULATIONS. Milk cow numbers and herd replacements by 1950 in U.S.A., 175; reconstruction of farms liberated from German occupation, 210; as affecting Chinese, 330; preserving the stocks of farm animals, 331; in Belgian Congo, 382.
LUMPY SKIN. See Skin, diseases; Knopvelsiekte.
"LUMPY WOOL." See Skin, diseases.
LUNGS. Blast injury to, 233.
LYMPHANGITIS, EPIZOOTIC. See *Cryptococcus farciminosus* Infection.
LYMPHANGITIS, ULCERATIVE. See *Corynebact. ovis* Infection.
LYMPHATIC SYSTEM.
General. Lymphatic tissue and regressive structure, 75; lymphatics of the synovial membrane, 277; quantitative relationship between lymphoid organs and blood lymphocytes of rats, 365; of the domestic fowl, 408.
See also Physiology.
Diseases. Pathogenesis of emphysema of lymph nodes in cattle, 19; lymphocytoma in a bitch, 268; a spontaneous tumour-like lesion of the pericaecal lymph nodes, 355.
LYMPHOCYTES. See Blood, corpuscles [White].
LYMPHOCYTIC CHORIOMENINGITIS, 61; absence of haemagglutinins, 8; immunity, 8; a similar virus, 431.
LYMPHOCYTOMA. See Lymphatic System, diseases.
LYMPHOGRANULOMA VENEREUM, 46; immunity, 8.
LYMPHOMATOSIS. See Leucosis, Avian.
LYMPHOSARCOMA. See Neoplasms, general, treatment.
LYSINS. Demonstration of leptospira lysins, 297.
See also Immunology, general; Streptococcus, lysins.

M

MAGNESIUM, 54.
See also Metabolism, general; Nutrition, diseases.
MAIZE. See Genital System, diseases; Nutrition, diseases.
MALARIA. See *Plasmodium* Infection.
MALAYA. See Rinderpest, general.
MALLEIN. See *Pfeifferella mallei* Infection [Glanders].
MAMMARY GLAND. Effect of diet on development of mammary glands in C3H mice, 116; aplasia of mammary gland tissue in a cow, 158; gynaecomastia in stilboestrol workers, 239; non-permeability of lactating bovine mammary gland to penicillin, 280.
See also Metabolism; Neoplasms, general, causation; Technique, general.
MAN.
General. See Parasiticides, D.D.T.; Thyroid Gland; Vitamins, general, B complex.
Arthropod Parasites. See Mange.
Bacterial Diseases. See *Brucella* Infection, in man; *Clostridium* Infection, general; *E. rhusiopathiae* Infection, human infection; Mastitis, Bovine, general; *M. tuberculosis* Infection; *S. adelaide*; *S. typhimurium*.
Diseases General. Treatment of diseases of kidneys and liver with choline chloride, 84.
Helminth Parasites. See *Echinococcus*; *Trichinella* Infection, general.
Physiology. See Blood, plasma; Physiology.
Poisoning. By D.D.T., 118.
See also Poisoning, metals metalloids and salts.
Protozoan Diseases. See *Leishmania* Infection; *Leptospira* Infection, diagnosis, in dogs.
Virus Diseases. See Encephalitis; Encephalomyelitis, Equine, general, immunization; F and M Disease, in man; Influenza; Smallpox.
MANCHUKUO. See *Leishmania* Infection.
MANGANESE.
General. Effect on capacity of the body to render toxins and other poisonous matter innocuous, 368.
Deficiency. In rats, 20.
MANGE.
General. Sheep scab, 14, 36; sarcoptic mange in foxes, dogs and man, 152; sarcoptic mange in cattle, 307, 353, 395; control in sheep and goats, in Argentine, 436.
Treatment. Horses faeces as raw material for mange remedies, 29; in cattle, treated with sodium thiosulphate and HCl, 29; of goats, 73; treatment of scabies with wormwood, 83; of scabies with tetanosol, 83; sulphur dioxide concentration in gas cell treatment of mange, 205; with D.D.T., 205; with sodium sulphite, 353; sarcoptic mange treated with D.D.T. and derris wash, [illegible]
MANGELS. See Poisoning, plants.
MANIOC. See Poisoning, plants.
MARFANIL. Action on anaerobic blood agar plates, 120; mode of action, 243; in treatment of puerperal diseases of cattle, 243.
MARIE'S DISEASE. With TB in a horse, 38.
MARMOSETS. See Yellow Fever.
MASTITIS. Vaccination of rabbits against, 131.
MASTITIS, BOVINE.
General, 94, 336, 380; in U.S.A., 2; infective organisms, 37; in India, 172; associated with *Str. agalactiae*, in Australia, 253; due to Cl. perfringens, 258; types of streptococci in mastitis followed by outbreaks of human disease, 337; in Portugal, 337; caused by a Corynebacterium, 339; Investigation by Veterinary Research Division, Ministry of Agriculture, (1944-45), 387; bovine gangrenous mastitis, 423.
Control, 35, 331, 334; in U.S.A., 1; in Honolulu, 1; in Australia, 179; differential germ test with leucocyte count, 254; recent advances in, 289; fast milking and early control, 421; progress in, 421.
See also Water.
Diagnosis. Hotis test for detection of, in milk, 37; diagnostic methods, 95; examination of milk samples for, 131, 254; bromthymol blue field test for, 254; mastitis and plate count of milk, 289, 386.
Transmission. By horn fly, 1.
Treatment, 92, 462, 463; by sulphonamides, 37, 120; by penicillin, 82, 120, 168, 369, 370; vitamin C, 161; by sulphapyridine, 167; non-permeability of lactating bovine mammary gland to penicillin, 280.
MAURITIUS. See Reports.
MEAT. See Food Inspection, meat.
MEDIA, CULTURE. Bile-potato for attenuation tubercle bacilli, 87; growth of *M. tuberculosis* on embryonic tissue containing penicillin, 87; growth of human tubercle bacilli on egg medium, 87; selective medium for isolation of salmonella bacilli, 87; synthetic medium for differentiation, 88; egg-yolk medium for cultivation of *Haemophilus gallinarum*, 127; addition of sodium chloride to, 179; bovine amniotic fluid as base of trichomonal and bacterial culture media, 173; liver broth for *Cl. chauvoei*, 183; substitute for bacteriological agar, 208; aeration of

MEDIA CULTURE—[cont'd.] fluid media, **208**; growth of *Eberthella typhosa* and *Aerobacter aerogenes* in tetrathionate broth, **250**; for coliform and salmonella groups, **285**; agar production, **460**.
See also Hydrogen Ion Concentration; *M. tuberculosis*, avian type, cultivation; *Staph. aureus*; Technique, bacteriological.
MELANIN, 22; "brown degeneration" of microfilaria due to, **102**.
MERCURIC CHLORIDE. See Therapeutics, of parasitic infestations.
MERCURIC IODIDE. See *C. farciminosus* Infection.
METABOLISM. Of protein, fat, carbohydrates and minerals, **21**; of zinc with the aid of its radioactive isotope; excretion in urine and faeces and distribution in tissues of mice and dogs, **22**; of Ca, Mg and P in a calf with pica, **77**; choline requirement for metabolism of proteins, **110**; plasma protein metabolism, **113**; fat metabolism of mammary gland, **158**; calcium and phosphorus metabolism in the chick, action of Vitamin D, **160**; metabolic alterations following thermal burns, **165**; endogenous nitrogen and protein metabolism in cattle, **197**; oxidative metabolism of *Ascaris suis*, **228**; carbohydrate metabolism of mammary gland tissue *in vitro*, **235**; of semen, **277**; effect of diet of fowls on vitamin A metabolism, **310**; digestion of carbohydrates under influence of calomel, chloral hydrate and Glauber's salt in experiments on horses with fistulae, **315**; of glucose by *Staph. aureus*, **343**; effect of molybdenum on copper metabolism in herbivirous animals, **359**; metabolic disorders in parrots and canaries, **363**; plasma protein metabolism, **364**; cellulose digestion by protozoa in rumen of cattle, **365**; molybdenum and copper metabolism of farm animals, **402**.
See also Iodine; Phosphorus; Proteins.
MEXICO. See Food Poisoning.
MICE.
General. See Nutrition, general; Oestrus; Ovary.
Diseases Of. See Amyloidosis; Cestodes; Congenital Defects; Grey Lung Virus; Helminth Parasites, general; Heredity; *Leptospira* Infection; Neoplasms, causation; *Past. tularensis*; Pox, in mice.
Research Work In. See Blood, platelets; *Brucella* Group; Chromomycosis; *Cl. welchii*; Encephalitis, general; Encephalomyelitis, general; Encephalomyelitis, Equine, virus; *E. rhusiopathiae* Infection, treatment; Influenza, general; *Leptospira* Infection, general; Mammary Gland; Metabolism, general; *M. tuberculosis*, general; Neoplasms; Penicillin; Pneumonia; Pneumonia, Rickettsia; Poliomyelitis; Psittacosis; *Rickettsia* Infection; *S. enteritidis*; *Streptococcus*, general; Streptomycin; Sulphamerazine; Sulphonamide Compounds, therapy; Technique, bacteriological; Viruses, immunity, neurotropic.
MICROFILARIAE. See Filariae.
MICROSCOPY. See Technique, bacteriological.
MICROSPORON. See Ringworm.
MILK.
General, 60; goat's milk anaemia, **311**; method for supply of fresh milk to isolated R.C.A.F. stations, **248**; Report of Milk Committee, Ceylon, **325**; sources of *Oosprora lactis* on dairy farms, **326**; influence of Balbo-rye pasture on odour, **457**.
See also Books, general; Lactation; Nutrition, general, diseases.
Bacterial Content. In U.S.A., **1, 334, 418**; mastitis bacteria in, **37**; pathogenic bacteria in fermented milks, **84**; tuberculous milk and tea-making, **84**; examination for mastitis, **131, 254**; and *Br. abortus* ring test, **183**; *Br. abortus* agglutinins in, after vaccination, **183**; isolation of streptococci and their thermal death point in milk, **326**; mastitis and plate count of milk, **289, 386**; behaviour of *Str. uberis* in, **386**; sour milk and tubercle bacillus, **326**; does yoghurt kill pathogenic bacteria, **326**; outbreak of vomiting due to a streptococcus, **377**; causing TB in domestic animals, **415**; effects of transport and storage on, **415**.
See also Mastitis, diagnosis.
Cell Content. Antibodies conveyed by, **102**.
Chemical Composition, 335; ascorbic acid oxidation in, **84**; diagnostic value of Rothera's test, **171**; rapid test to distinguish human and cow's milk, based on xanthine oxidase content, **326**.
Diseases Transmitted By. Leucocytic formula of milk from cows reacting to tuberculin, **256**; in U.S.A., **171**; milk-borne infectious hepatitis, **350**.
See also Cheese.
Hygiene. Effect of high cell content on resazurin and methylene blue tests, **30**; resazurin test in relation to the National Milk Testing and Advisory Scheme, **248**; unsafe milk, **415**; veterinary and medical control of, **415**.
Pasteurization. Determination of, by phosphatase test of Cheddar cheese, **171**; in Adelaide, **325**; thermal death point of streptococci, **326**; Heat Treatment of Milk (Prescribed Tests) Order, (Scotland) 1944, **415**; steam sterilization on dairy farms, **415**.
MINERALS.
General. Action of mineral elements on nerve irritability, **54**; minerals in pasture, **111**; in animal nutrition, **358**.
Imbalance, 333; in diet, **358**; mineral imbalance, **441**.
See also Nutrition, diseases.
MINK. Grubs in, **103**.
See also *Erysipelothrix rhusiopathiae*.
MITES. Isolation of encephalitis virus from chicken mites, **45**; carriers of scrub typhus, **70**; lime-sulphur dips for, **91**; rat mite dermatitis, **103**; dermatitis from mites in straw, **227**; biology of *Oribatid* mites, **353**.
MOLASSES. As famine rations for livestock, **196**.
MOLYBDENUM. Toxicity, **240**; effect on copper metabolism in herbivorous animals, **359**; metabolism in farm animals, **402**.
See also Nutrition, diseases.
MONACRIN. In treatment of bovine mastitis, **92**.
MONKEYS.
Diseases. *Past. pseudotuberculosis* Infection in, **64**; pulmonary ascariasis in, **73**.
See also Diseases General; *M. tuberculosis* Infection, general; *Toxoplasma* Infection.
Research Work In. See Blood, corpuscles [Red]; Brain, diseases; Hormones, sex hormones; Poliomyelitis.
MOROCCO. See *Leishmania* Infection; Reports.
MOSQUITOES, 99; feeding of *Aëdes aegypti* through animal membranes, **345**; in spread of equine encephalomyelitis, **188**.
See also Encephalitis, general; Parasites, General; Parasiticides, D.D.T.; *Plasmodium* Infection, general; *Plasmodium gallinaceum*; Viruses, transmission.
MOTONEURONS. See Nervous System, general.
MOUSE PNEUMONIA, 46; immunity, **8**; causal agent "Ib," **10, 11**; Causal agent "schandau," **11**; Causal agent "greifswald," **11**.
MUD FEVER. See *Leptospira* Infection.
MULES. See Bones, fractures; Encephalomyelitis, Equine, immunization; Rabies, transmission.
MULES OPERATION, 89, 91, 380.
MUSCLES.
General. Action of various anaesthetic agents on muscles of colon of the dog, **317**.
Diseases. Synthesis, storage and excretion of creatine, creatinine and glycocyamine in muscular dystrophy, and effects of hormones, **109**.
MUTATION. See Bacteria General, dissociation.
MYCELIUM. See *M. tuberculosis*, avian type.
MYCOBACT. JOHNEI INFECTION [JOHNE'S DISEASE], 463; multiple testing on sensitized cattle for studying johnin potency; dermal thickness gauge; standardizing johnin product, **12**; in Germany, **63**; Vaccination, **133**; specific antigen from tissue infected with Johne's bacillus, **181**; observation on experimental herd, **213**; in India, **252**; diagnosis in cattle, **292**; advanced case in India, **339**.
MYCOBACT. RANAE. Biologic changes in sulphonamide-resistant *M. ranae*, **423**.
M. TUBERCULOSIS.
General. Infection of mice by respiratory route, **37**; human type isolated from a bovine, **38**; causing carpitis in a cat, **63**; spleen-appearance time related to dosage, **337**; isolation from gastric contents, **380**; antibiotic substances active against, **452**.
See also Apparatus; Butter; Immunology, general, allergy; Milk, bacterial content; Technique, bacteriological.
Avian Type. Isolation of a polyglucosan of very high particle weight, **63**; causing TB in man, **213**; pseudomycelia in cultures of avian tubercle bacilli in embryo extract, **291**.
BCG, 62; use in Sweden, **3**; lesions produced by, in cattle, **255**; BCG vaccination in Norway, **255**; Variations in blood cells of g. pigs inoculated BCG, **291**.
See also *M. tuberculosis* Infection, immunization.
Cultivation. Warm-stage observations on development of avian tubercle bacillus in embryo extract, **95**; inhibition of growth by a mold product, **95**; depot for standard cultures, report of the Medical Research Committee of the National Tuberculosis Association, **421**; growth inhibition by 4-N-alkylresorcinols in synthetic nonprotein medium, **422**; factors affecting growth in liquid media, **423**.
Morphology, 95.
Tuberculin, 177; rabbits, sheep and g. pigs sensitized by, **2**; compared w. complement fixation tests, **4**; leucocytic formula of milk from cows reacting to, **256**; "anti-histamine" substances and tuberculin test, **151**; conservation of diluted tuberculin, **305**; senile tuberculin anergy, **352**; effect of Reynal's factor on tuberculin reaction, **395**; effect of oxidized ascorbic acid on tuberculin reaction, **395**.
Viability. Antibacterial effects of organic substances on, **213**; formation of yellow pigment from *p*-aminobenzoic acid by, **256**; *in vivo* action of *p*-aminobenzenesulphonyl thiolrea on, **203**; antitubercular activity of aspergillic acid, **280**.
See also Antibiotic Agents, plant products.

M. TUBERCULOSIS—[cont'd.].
Virulence. Pathogenicity for cats of human and bovine types, 132.
M. TUBERCULOSIS INFECTION.
General, 154; heredity and TB, 63, 95, 132; in U.S.A., 130; yellow carotenoid foci in pulmonary TB, 138; epidemiology in Denmark, 255; of bovine origin, in Argentina, 255; pathology of, in monkeys and reptiles, 290.
See also Immunology, allergy; Streptothrycin; Sulphones.
Avian Type Infection, 36, 309, 310; in Australia, and intradermal avian tuberculin test, 181; peculiar corpuscles in tuberculous material, 213.
Bovine Type. In fowls in Eritrea, 290.
Control. In Sweden, 3; immunization v segregation, 213; scheme for prophylaxis and eradication, 254; prevention of bovine TB, 254; eractication of bovine TB, 387; in U.S.S.R., 421.
Diagnosis (General). By cutaneous scarification, 63; acid-fast saprophytes, a source of error in, 292; biologic diagnosis, evaluation tests on hamster and g. pigs, 338; spontaneous TB in camels in Somaliland, 422.
Human Type Infection. Transmitted to cattle, 3; fungus isolated from patients, 63.
In Cats. Predilection sites in dogs and cats, 38.
In Cattle, 36, 61, 92, 418, 463; of the genitalia, 2; attempt to eradicate from two herds, 180; in U.S.A., 181; in Canada, 181; in India, 252; in Eritrea, 289.
In Dogs. Predilection sites in, 38; experimental pulmonary tuberculosis in, 387; experimental infection in dogs and BCG, 422.
In Goats. In goats, a danger to man, 339.
In Horses. Marie's disease and TB, 38; ossification of right auricle of horse as result of hyperergic tuberculous myositis, 133.
In Man. Bovine TB, in Sweden, 2; in Canadian Army 1939-1944, 181; human pulmonary TB due to avian tubercle bacilli, 213; influence of war conditions on bovine TB in man in Amsterdam, 422.
In Sheep, 38.
Immunization, 225; Japanese A-O vaccine for, 181; efficiency of mass vaccination by Calmette's method, 291; Koch's phenomenon, 291; tuberculin sensitivity, tuberculous immunity and inoculation, 254; mechanism of specific tuberculo-immunity, 387; BCG immunization in New York, 422; with BCG, in dogs, 422.
Meat Inspection. Influence on meat value, in Germany, 2; criteria for meat inspection in generalized TB, 30; regulations in Germany, 85.
Pathogenesis. See Blood, picture.
Treatment. With sulphapyridine, 82; chemotherapy of sulphones and sulphonamides, 121; streptomycin in tuberculosis, 280; tuberculostatic action of sodium salts of certain synthetic alicyclic acids, 338.
Tuberculin Test, 2, 61; re-test reactors, 2; in dogs, 63; of avian type, in Australia, 181; Sutherland rapid tuberculin reaction, 290.
See also *M. tuberculosis*, tuberculin.
MYCOPHENOLIC ACID. See *Staph. aureus*.
MYELOBLASTS. See Bone Marrow.
MYIASIS. In man, 14; in mink, 103; human creeping myiasis, 103; in cattle, in Hawaii, 267.
MYOCARDITIS. Produced by a filter-passing agent, 150; in dogs, 233.
MYOGLOBINURIA PARALYTICA EQUINE. Insulin therapy, 455.
MYOSITIS. See *M. tuberculosis* Infection, in horses.
MYXOMA, 381; myxoma virus in hares, 230; cellular hyperplasia in rabbit myxoma, 230.

N

NAGANA. See *Trypanosoma brucei* Infection.
NAGANOL. In *T. equiperdum* Infection, 453.
See also *Trypanosoma* Infection, treatment.
NECROBACILLOSIS. See *Fusiformis necrophorus* Infection.
NEMATODES. In sheep, 14; life cycle of *Capillaria caudinflata*, 15; survival on pasture, 48; immunity of sheep to, 48; tryphenylmethane treatment, 58; in swine, 73; in ruminants, in India, 73; life cycle of *Capillaria caudinflata*, 104; effect of radiation on eggs, 105; *Trichuris*, 192; *Dictyocaulus* in reindeer, 192; life history of *Subulura brumpti*, in Hawaii, 267; sodium fluoride as ascaricide for swine, 283; relation between glycogen depletion in *Ascaridia galli* and elimination by the host, 354; canine sensitivity to ascaris antigen, 354; glycogen utilization in *Ascaridia galli*, 397; fungi destroying nematodes, 436.
See also *Filaria*; Technique, parasitological.
NEOPLASMS.
General, 61, 154; in cattle and sheep, 17; effect of dietary factors on production of tar-carcinoma in mice, 18; Weltmann serum coagulation reaction for diagnosis of neoplastic disease, 49; in domestic animals, 74; cancer of adrenal glands in swine, 74; endocrinologic considerations of canine neoplastic diseases, 193; neoplastic potentialities of mouse embryo tissues, 194; carcinoma of anal region, in dogs, 229; glandular skin cancer in dogs, 229; lipoidal hepatic granuloma in rats, 229; intracranial vascular tumours, 230; research of National Cancer Institute, U.S.A., 230; mammary cancer in mice, 230; milk agent in spontaneous mammary cancer, 230; trauma and tumours, 268; dog neoplasms, 308; experimental production of tumours, 308; susceptibility of rabbits to Brown-Pearce carcinoma, 308; growth of mammalian tumours in fertile eggs, 309; experimental extraskeletal bone-forming neoplasms in the rat, 355; induced carcinoma in fowls, 355; quantitative determination of growth of transplantable mouse carcinoma, 355; inheritance of cancer in mice, 355; transplantable lymphosarcoma of chickens, 399; report of British Cancer campaign, 1945, 437; neoplastic disease of the fowl, 437.
See also Leucosis; Myxoma.
Causation. Ergot, 25; mouse mammary-tumour agent, 105; fate of C3H milk influence in mice, 106; relation of milk influence to mammary tumours of mice, 106; susceptibility of young and adult mice to mammary-tumour agent, 106; induction of hepatomas in mice by chloroform, 106; tumour viruses in rabbit and g. pigs, 430; metal cancer, 153; neurofibroma in the bovine, 193; melanotic epitheliomas in bovines, 193; survival of mammary tumour milk agent of mice, 193; sugar cancer, 230; studies with physical carcinogens, 356; filtrable agents producing lymphoid tumours and osteopetrosis in chickens, 398; chemical theory of causation of cancer, 437; relation of inherited susceptibility and inherited hormonal influence on mammary cancer in mice, 437.
Immunity. Immunizing action of lymphoid tumour in chickens, 107; antibodies in blood of rabbits carrying transplanted cancers, 309; immunization against a lymphoid tumour of the chicken, 438.
Spontaneous. In ergot-fed rats, 25; "horn cancer" in a bullock in India, 49; histologic changes in adrenal glands of tumour-bearing mice, 106; a spontaneous tumour-like lesion of the pericaecal lymph nodes, 355; effect of foster nursing on spontaneous carcinoma in mice, 355; scirrhous adenocarcinoma in uterus of a cow, 398.
Treatment. Regression produced in the Murply lymphosarcoma by injection of heterologous antibodies, 17; hormone therapy of cancer, 246; by bacterial toxins, 376; reactions of four patients with advanced malignant tumours to polysaccharide, 398; by radioactive phosphorus, 412; influence of urethanes on experimental animal tumours, 413; treatment of cancer in animals with tissue extracts, 413.
See Sulphathiazole.
NEOSALVARSAN. In treatment of cutaneous spirochaetosis, 99.
NEOSTIBOSAN. In treatment of filariasis, 375.
NERVOUS SYSTEM.
General. Regenerative cycle of motoneurons, and phosphotase activity; 23; action of mineral elements on, 54; ganglion nodosum in domestic animals, 81; cytochrome oxidase in normal and regenerating neurons, 115; influence of autonomic nervous system on peripheral blood composition, in horses, 235; peripheral nerve terminations, 236; malformations of c.n.s., 440.
Diseases. Toxic polyneuritis caused by tricresyl phosphate, 240; a protozoan parasite of the c.n.s., 261; of cattle, 285; polyneuritis equi, 357; polyneuritis in rats due to diet deficiencies, 402; multiple neuritis in a bitch, 439.
See also Benadryl; Vitamin B complex.
NEUROFIBROMA. See Neoplasms, causation.
NEUROLYMPHOMATOSIS GALLINARUM. See Fowl Paralysis.
NEW ZEALAND. See Cobalt; Copper; Helminth Parasites, general; Photosensitization; Poisoning, plants; Reports; Services, Veterinary; Vitamin D.
NEWBORN ANIMALS. Inoculation of the dam for prevention of disease in young animals, 102; hereditary defect of new-born lambs, 312; nutrition of young pigs, 358; vitamin A content of blood plasma of new-born calves, 359; research on prostate gland of, 448.
NEWCASTLE DISEASE. In Burma, 36; two laboratory infections with, 393; neutralization *in vitro* of avian pneumoencephalitis virus by Newcastle disease immune serum, 393.
See also Immunology, agglutination.
NICOTINIC ACID. See Vitamins, B complex.
NIGERIA. See Fodder; Helminth Parasites, general; Reports.
NORWAY. See Foot Rot; *M. tuberculosis*. BCG.
NOTATIN, 119.
NUTRITION.
General, 21, 251, 331; supplying phosphorus to farm animals, 77; use of phosphorus-containing substances for bone meal with reference to fluorine hazard, 77; use of vitamins in animal feeding, 77; nutritional re-

NUTRITION—General—[cont'd.].
quirements of normal mice, 110; nutritional value of diets in rat feeding, 110; livestock nutrition, 158; copper for fattening pigs, 159; boron in nutrition of rats, 159; effect of feeding iodinated casein on milk production of cows, 159; research in India, 196; molasses as famine rations for livestock, 196; nutritive value of star grass hay, 196; requirements of rabbits, g. pigs and hamsters, 270; vitamin deficiencies in natural animal foodstuffs, 271; of calves, 287; effect on egg production, 312; of fowls, 336; of young pigs, 358; dietary requirements for fertility, 361; addition of milk to vitamin-free diets of rats, effect on growth, 362; of sheep, 381; calcium, phosphorus and vitamin D in turkey poult nutrition, 404; rations for ducks and pyridoxine deficiency, 404; effect of war rationing on disease in animals, 405; nutritional disorders of chickens caused by meat and bone meal, 442; a growth factor in certain vegetable juices, 444.
See also Amino Acids; Bones, development; Eggs; Fodder; Mammary Gland; Minerals; Phosphorus; Proteins; Research; Vitamins.
Diseases. Hepatic injury in rats by feeding maize-meal and sour milk, 19; iron and copper deficiency anaemias, 20; molybdenum deficiency in Tasmania, 20; anti-vitamin factor in raw mutton, 21; and osteofibrosis, 111; manganese deficiency in the rabbit, 20; "Khutili," nutritional disease of cattle in Russia, 51; disease of Oregon cattle associated with hypomagnesemia and hypocalcemia, 51; vitamin A deficiency in cattle, in U.S.A., 51; vitamin and mineral deficiencies, 92; mineral nutritional diseases, 111; a disorder of post-parturient cows, characterized by uterine discharge, 113; deficiency diseases, sources and effects, 160; effect of dietary deficiencies on oral structures, 196; deficiencies of mother's milk, 196; congenital defects of nutritional origin, in swine, 234; deficiency disease of calves on milk diet, 270; causing puerperal haemoglobinuria, 271; cobalt and copper deficient diets, 334; dietary cirrhosis of rats, 361; nutritional encephalomalacia in chicks, 361; anaemia and granulocytopenia in rats, 361; cutaneous signs of deficiencies, 362; domsiekte, pregnancy disease in sheep, 363; hypocalcaemia, 381; dual abnormalities in sow and litter, 401; nutritional production of canine hysteria, 402; nutritional effects on gastric mucosa of the rat, 404; anaemia in rats, 405; calcifying cortico-epinephrosis in cachetic cats, 405; deficiencies in pasture, 417; effect of dietary deficiency on duration of gestation and lactation in pigs, 441; goiterogenic diets, 441; anaemia, hypoproteinaemia and cataracts in swine fed casein hydrolysate, comparison with pyridorine-deficiency anaemia, 444.
See also Cobalt; Copper; Liver, diseases; Pituitary Gland; Phosphorus; Vitamins.
NUTTALIA INFECTION. Anaplasmoid forms in equine nuttalliasis, 140.
NYASALAND. See *Theileria* Infection; Reports.
NYMPHOMANIA. See Therapeutics, general.

O

OEDEMA. Dehydration of hoof oedema by periston, 154.
OEDEMA, MALIGNANT. See *Clostridium* Infection.
OESTRIDAE. Rotenone for control of warbles, 28; incidence of warbles in Denmark, 1935-44, 306; devices for warble-fly studies, 306.
OESTRIN. See *Brucella* Infection, in cattle.
OESTROGEN. D.B.E., a new synthetic oestrogen, 246.
See also Bones, fractures; Hormones, sex hormones; Lactation.
OESTRUS. Induced in sheep, by gonadotropin and stilboestrol, 541; in mice, 106, 116; response of anestrous does and ewes to pregnant mare's serum, 116; effect of mating time on reproduction in foxes, 116; hormonal control, in ewes, 164; influence on insemination of cows at different stages of oestrus on impregnation and embryonic development, 237; use of "gonadin," 335; detection of, in domestic animals, 47.
OOSPORA LACTIS. See Milk general.
OPTHALMIA. See Eyes, diseases.
OPHTHALMOLOGY. And penicillin, 243.
ORGANIC ANTIMONIALS. See *Trypanosoma* Infection, treatment.
ORNITHODOROS. Systematic position of *O. crossi* Brumpt, 14.
OSTEOFIBROSIS, OSTEOMYELITIS, OSTEOPERIOSTITIS, OSTEOPOROSIS. See Bones, diseases.
OSTERTAGIA. See Trichostrongyles.
OTITIS. See Ears, diseases.
OVARY. Disorders in the bitch, 439; ovarian function and body temperature, 162; effects of hyaluronidase on follicle cells of ovulated rat ova, 199; ovaries of virgin mice, 445; role of thyroid in response of ovary to gonadotropins, 446.
OVULATION. Cleavage stages of the ova of the horse, 163; ovulation time in cows, 237; diagnosis, 239.
See also Oestrus.
OXYURIDS, 58.

P

PALESTINE. See Encephalomyelitis, Equine, general; Jaagsiekte; Law, Palestine; *Pasteurella* Group, general; Protozoa.
PALUDRINE. In treatment of malaria, 122; chemical constitution, 373.
PANAMA CANAL ZONE. See Reports.
PANCREAS. Histology of, 401.
PANLEUCOPENIA. Intranuclear inclusions in, and pathogenesis of disease with comparison with inclusions of herfes, B-virus, yellow fever and burns, 10.
PANTOTHENIC ACID. See Vitamins, B complex.
PAPILLINEPHRITIS. In mice, 109.
PARALYSIS. In bitch fed raw mutton, 21; due to dog tick, 103; in horses due to botulism, 216; in dogs caused by *leishmania* infection, 296; in sheep, 381; Kiating paralysis, 443.
PARASCARIS. Epizoology in horses, 17.
PARASITES GENERAL, 94; of fur animals, 14; of sheep, 14; illustrated laboratory manual of parasitology, 36; "brown degeneration" of microfilaria in mosquitoes, 102; South Africa "creeping eruption," 102; parasitic infestation in U.S.A., 130; avian parasitology, 191; trend of British veterinary parasitology, 225; in relation to meat production, 226; of domestic animals in Costa Rica, 226; animal parasites of dogs, 352.
See also Arthropod Parasites; Books, parasitology; Helminth Parasites; Protozoa.
PARASITICIDES.
General, 29; contact mechanism, 28; sodium fluoride for poultry lice, in India, 28; humidity in relation to ovicidal effects of powders used against body louse, 28; rotenone and ox warble control, 28; gas condensate, 29; pyrethrum tested on argasid tick, 29.
D.D.T., 28, 438; histopathological changes following administration of D.D.T. to dogs, cows, sheep and horse, 25; as a sheep blowfly dip, 28; ineffective against warble flies, 28; toxicity, 56, 368; as a fly spray, 83; in control of Rickettsial infections, 101; toxic effects in man and dogs, 118; poisoning of cats, rabbits and rats, 118; toxicity, tolerance level in human foods, 201; and scabies, 205; effects when given orally to cows, horses, sheep, 205; in control of chicken louse, 205; use in relation to problems of tropical medicine, 206; for mosquito control in U.S.A., 206; general survey and paint applications, 282; in disinfestation, 282; remedy for sheep ticks, 282; in control of flies, 306; pharmacology of D.D.T.: toxicity following injection and treatment of D.D.T. poisoning, 449; relation of absorbability to toxicity, 449; execretion in man, 454.
See also Poisoning, metals, metalloids and salts.
PARROTS. See Metabolism; Pneumonia; Psittacosis.
PASTEURELLA INFECTION.
In Bovines. Malicious creation of malady simulating, in India, 256; in Eritrea, 292.
In fowls [fowl cholera]. In U.S.A., 65; detection of carriers, 65; addition of disinfectants to drinking water, 82; in Eritrea, 292; immunization, 275; treatment, in ducks, with autogenous bacterin and penicillin, 453.
In Goats. In Eritrea, 292.
In Swine. In Eritrea, 292.
In Rodents. Sylvatic plague, in U.S.A., 257; in Eritrea, 292.
Immunization. Vaccination, 182, 292.
PAST. AVISEPTICA, 108, 182.
PAST. BOVISEPTICA, 182.
PAST. BUBALISEPTICA. In pigs, 423.
PAST. LEPISEPTICA INFECTION. Agglutination tests, 4.
PAST. PESTIS, 103, 373; cellular immunity in, *Past. pestis* infection, 434.
PAST. PSEUDOTUBERCULOSIS INFECTION, 102; in primates, 64; serological relationships of strains of, 64; in a lion, 96; in brain of sheep, 387.
PAST. SEPTICA, 182; pathogenesis in developing chick embryo, 96.
PAST. TULARENSIS, 310; isolation from sputum, 64; field studies of latent tularemia in rodents, 96; infection of ticks with, 134; susceptibility of hamsters to, 134; symptoms and diagnosis, 182; in sheep, 214; in U.S.A., transmitted by rabbit, ticks, fox, dog, 214; epidemiology, bacteriology and serology of, 214; susceptibility of fur animals and game birds to, 256; Ixodid ticks as reservoir of, in U.S.S.R., 292; efficacy of some drugs for, 281; of murine origin, in U.S.S.R., 293; in rabbits and rodents in North America, 423; attempted transmission by fleas, 424.
See also Technique, bacteriological.

PASTURES. Molybdenum deficiency in Tasmania, 20; seasonal variation in nutritive values, 91; infested with *Trichostrongylus*, 104; minerals in, 111; bloat in cows on alfafa pasture, 155; control of parasitism by pasture rotation, 334; copper-dressed pastures, 381; pasture hygiene, 417; influence of Balbo-rye pasture on odour of milk, 457.
See also Digestive System, diseases.
PATHOLOGY, 462; human, 22; work of Laboratory of Experimental Pathology, Cuba, 89; report of department of animal pathology, East Lansing, 93; work of Laboratory of Pathological Investigation, Bogota, 401.
See also Books, pathology; *Clostridium* Infection, general; *M. tuberculosis* Infection, general.
PECCARIES. See Swine Fever, general.
PEDICULOSIS. K-preparation for control of, 323.
PENICIDIN. See Antibiotic Agents, penicillium products.
PENICILLIN, 202; retention in body prolonged by para-aminohippuric acid, 26; physiological economy of penicillin in dogs enhanced by para-aminohippuric acid, 26; administration by mouth, 57; grown from a potato extract medium, 57; production of sterile and stable penicillinase, 57; penicillin sodium in treatment of relapsing fever, trypanosmiasis and toxoplasmosis, 57; effect on cultures in liquid and solid media, 60; function of autolytic enzymes in bacteriolysis by penicillin, 81; in treatment of mastitis, 82, 120, 369, 370; variation in production and stability in aqueous solution, 119; "fastness" of staphylococci, haemolytic streptococci and pneumococci to, 119; anticlostridial activity, 120; sensitivity of *H. influenzae* to, 121; effect on *B. proteus*, 121; in treatment of actinomycosis, 122; in experimental psittacosis of mice, 123; effects of enzyme preparations on; testing for sterility; inactivating agents, 166; from different fungi, 166; effects on intestinal bacteria, 168; present knowledge of, 201; in veterinary medicine, 201; superiority over bacteriophage, sulphathiazole, 201; an investigation and trial, 202; in treatment of osteomyelitis, 203; in treatment of experimental *E. rhusiopathiae* infections, 203; production, 242; use of concentrated penicillin in surface-active solution, 242; bacteriolytic action, 242; in ophathalmology, 243; treatment of serous-cavity infections, 243; diffusion across serous membranes of joint cavities, 451; stabilization by phosphate, 243; benzyl ester of, 243; concerted antibiotic effect of penicillin, methionine, threnine on brucella, eberthella, salmonella and shigella, 243; in treatment of osteomyelitis, 243; in leishmania infections, 245; report and bibliography, 279; world standard and unit, 279; methods of protraction of effect, 280; prolongation of action, 319; in beeswax-peanut oil mixtures, 319; as a sporicidal agent, 319; penicillin X and oil injections, 319; intravitreal penetration and therapy of infections of vitreous humour, 319; resistance of Gram-negative bacilli to, effects of amino acids, 320; synergic action on *Bact. typhosum*, 320; action on actinomyces and actinomycetales, 371; mycology presents nepicillin, 372; distribution and fate in the body, 372; sensitivity of staphylococci to, 372, 409; influence of sources of carbon and nitrogen in culture medium, 409; therapeutic value when applied locally, 409; effect on blood coagulation, 409; combined action of penicillin and sulphonamides *in vitro*, 409; nature of antibacterial action, 410; production in submerged cultures of *Penicillium notatum*, 451; effect of sulphonamides on action of, 451.
See also Actinomycosis; Anaemia, Equine Infection, treatment; *Bartonella* infection; *Cl. welchii*; *Escherichia coli*; Hydrogen Ion Concentration; Mastitis, Bovine; *Pasteurella* Infection, in fowls; *Staphylococcus aureus*; *Streptococcus* Infection, general; Technique, general, bacteriological; Therapeutics; Wounds.
PEPTIDASE. Activation by anaerobic bacteria, 41.
PERISTON. Use in blood transfusion in dogs, 31; dehydration of hoof oedema by, 154.
See also Blood, chemical composition.
PEROSIS. And folic acid, 442.
PETROL. See Gases, Poisonous.
PFEIFFERELLA MALLEI INFECTION [GLANDERS], 327; intrapalpebral test, 4; the glanders organism with reference to its cell inclusions, 38; rearing of foals from infected mares, 38; transmission from horse to man, 133; in man, 214; in India, 182.
See also Sulphonamide Compounds, mode of action.
PHAGOCYTOSIS. Influence of coagulase on phagocytosis of staphylococci, 427; of *T. foetus*, 138.
PHARMACOLOGY, 22; detoxication of organic arsenical compounds, 169; detoxication of arsphenamine, 169.
See also Uterus; Vitamins, B complex.
PHARYNX. See Digestive System, diseases.
PHEASANTS. *E. rhusiopathiae* Infection in, 387.
PHEMEROL. In treatment of bovine mastitis, 92; treatment of ringworm in calves, 453.
PHENANTHRIDINIUM COMPOUND. In treatment of *T. congolense* infection, 244.
See also *T. congolense*.
PHENOL. Substitutes for, in preserving *S. pullorum*, 5; restoring phenol resistance of *Staph. aureus*, 343; reaction with *Bact. coli*, 414; effect on vesicular stomatitis virus, 430.
See also Bacteria General, viability.
PHENOTHIAZINE, 91; derivatives as therapeutic agents, 28; for equine and bovine animals, 29; for Strongyles, 35; in treatment of lice, 83; as antidiarrhoeic and anthelmintic in cattle, 83; in control of trichostrongylosis, 105; safety of, for cattle, 118; toxicity in calves, 124; for breeding ewes, 124; in urine of rabbits, 125; in treatment of yearling wethers, 206; for sheep, 206; in control of parasites of horses, 246; in control of worms in pullets, 246; in control of parasites of goats, 323; use in veterinary practice, 374; effect of strongyolid infestation in horses, 374; for horses and other animals, 412; for stomach worm in sheep, 412.
PHOSPHATASE. See Nervous System, general; Physiology.
PHOSPHORUS. In animal diets, 111; changes in acid-soluble phosphates in the liver coincident to alterations in carbohydrate metabolism, 115; effects of phosphorus supplements on cattle, 270; supplements for livestock, 271; nutritive evaluation of defluorinated phosphates, with chicks and rats, 313; aphosphorosis in cattle, 359; radioactive phosphates as a therapeutic agent, 412; comparative action of calcium, phosphorus and vitamin D on teeth of rachitic rats, 443.
See also Blood, chemical composition; Metabolism, general; Nutrition, general.
PHOTOSENSITIZATION, 408; photosensitivity diseases in New Zealand, 279.
PHYSIOLOGY. Annual review, Vol. VII., 21; "digestion" of metal in the stomach, 23; of prostate gland, 24; lipiods of the carotid body of the horse, 24; rôle of adrenal cortex in physiological processes, 55; experiments on cardio-vascular, respiratory and secretory mechanisms of sheep, 161; bubble formation in animals, 161; factors affecting prolificacy in swine, 162; intersexuality in a goat, 164; functional alterations in lyphoid tissues induced by adrenal cortical secretion, 164; clinical determination of arterial blood pressure in horses, 197; cell content of synovial fluid, 198; hematic and anatomic changes in dogs following insulin injection, 198; glucose tolerance in bovines, 198; pre-partum milking, 235; excretion of tortoise shells by cattle, 236; internal inhibition of sexual reflexes in buck rabbits, types of nervous activity of temperament, 238; abnormal secondary sexual characters in incompletely castrated cock, 239; rheological properties of human cervical secretion, 239; hearing changes in animals after decompression, 275; reproduction and lactation of dairy cattle, 276; negative pressure and nursing by calves, 275; alkaline phosphatase activity in human blood and bone marrow cells, 315; course taken by liquids through stomach of sheep, influence of copper salts, 365; histochemical contributions to physiology, 406; physiology of reproduction in women and cows, 407.
See also Ageing; Blood, chemical composition, corpuscles [Red], corpuscles [White], picture, plasma; Eggs; Fertility; Fleeces; Hamsters; Hormones, general, sex hormones; Insemination, Artificial; Intestines, general; Liver, general; Nervous System, general; Oestrus; Ovary; Ovulation; Rigor Mortis; Spermatozoa; Spleen; Technique, general; Temperature; Water; Wounds.
PHYTONCIDES, 464.
See also Protozoa; Wounds.
PICA. In a calf, 77.
PIGEONS. See *E. rhusiopathiae* Infection, general; Goitre; Poisoning, plants; *Toxoplasma* Infection; Trematodes.
PIROPLASMOSIS. See *Babesia* Infection.
PITUITARY GLAND. Melanotropic function in vitamin C deficiency in g. pigs, 52; histochemical reactions associated with basophilia and acidophilia in, 117.
See also Hormones, general; Immunology, antibodies; Lactation; Spleen; Therapeutics, general.
PITYRIASIS. In pigs, in Germany, 216.
PLACENTA. Retention of, in buffalo, in India, 75; immunity conferred via, 102; histochemical reactions associated with basophilia and acidophilia in, 117.
PLASMODIUM INFECTION [MALARIA].
General. Mechanism of relapse, avian malaria, 6; research, control and prevention, 122; effect of preservation by freezing on virulence of, for ducks, 139; spontaneous disappearance from areas where *Anopheles* persist, 139; zooprophylaxis, 139; in bats, 296.
See also Technique, parasitological.
In Ducks. Attempted immunity by Forssman antigen, 43.
Immunity. Agglutinins in serum of patients, 14; attempted immunity by Forssman antigen, 43; studies on Weltmann reaction, 151.
See also Immunology, agglutination.
Treatment. Of avian malaria, 6; principles of, 245; chemotherapeutical method, 345.

PLASMODIUM BRASILIANUM. Effect of immunity on asexual reproduction of, 260.
PLASMODIUM GALLINACEUM, 438; Susceptibility of *Aedes albopictus* to, 6; development of sporozoites, 6; viability, 6; erythrocytic forms, 7; cycle in reticulocytes, 7; biology, 7; action of antimony tartrate, 28; sulphonamides for, 58; endo- and exo-erythrocytic phases of, 67; tyrothricin for, 82; history, symtoms, treatment, 98; chilling as means of retaining viability of sporozoites of, 99; paludrine treatment, 122; sulphadiazine and quinine treatment, 123; growth in tissue culture, 138; occurrence of endothelial forms of, 138; inoculation of chick embryos with, by mosquitoes, 138; in chicks following inoculation of sporozoites, 186; effect of X-rays on development of endothelial stages of, 345.
See also Technique, parasitological.
PLASMODIUM JUXTANUCLEARE. Characters of Mexican strain of, 186.
PLASMODIUM LOPHURAE. Effect of riboflavin deficiency on infection by, 6; infection of chick embryo, 138; chemotherapy of, 322.
PLASMODIUM PRAECOX. Development in birds, 260.
PLASMODIUM RELICTUM. Virulence of, for ducks, 139.
PLEURO-PNEUMONIA, BOVINE CONTAGIOUS, 49, 92, 177, 332, 380, 462; in W. Africa, 34; in Australia, 42; control, 287; field control, 342.
PLEURO-PNEUMONIA, CAPRINE CONTAGIOUS, 332; in Burma, 86; in India, 252.
PLEURO-PNEUMONIA-LIKE ORGANISMS. In human vagina, 185; isolated during passages in chick embryos, 295; morphology and nature of, 390..
PNEUMOCOCCUS. See Penicillin.
PNEUMOCOCCUS INFECTION. Anti-immunity factor, 12.
PNEUMOENCEPHALITIS, AVIAN, 178; neutralization in *vitro* of avian pneumoencephalitis virus by Newcastle disease immune oerum, 393.
PNEUMONIA, 463; with *Corynebact. equi*, in a calf, 4; cold isohaemagglutinins in primary atypical pneumonia, 101; chemopathology of, in cats, 195; histogenesis of experimental pneumonia in mice, 270; sulphathiazole for parrot pneumonia, 411.
PNEUMONIA, RICKETTSIA. Histology of, in the white mouse, 225.
PNEUMONIA, VIRUS CAUSED. Properties of virus propagated in chick embryos, 100; neutralization of virus by human serum, 100; etiology of primary atypical pneumonia, 224; aetiologic relationship to human influenza, 265; studies on PVM; measurement *in vivo* of virus and antibodies, 301; studies on PVM; immunological evidence of latent infection in mammals, 349; pneumonitis epidemic, etiology, 349; ornithotic pneumonia, 393.
PNEUMONOMYCOSIS. In goslings and turkey poults, 295.
PODOPHYLLIN. Treatment of condylomata acuminata, 58.
POIKILOCYTOSIS. See Blood, diseases.
POISON GAS. See Gases, Poisonous.
POISONING.
General. Tiger snake bite in a dog treated with antivenene, 59; toxicity of thioural, 56; malicious poisoning of cattle, 199; Russell's viper bite, 318; poisoning in domestic animals, 367; effects of polysaccharides on dogs and g. pigs, 398; tolerance of rat to arsenic trioxide, 448.
See also Books, toxicology; Food Poisoning; Gases, Poisonous; Parasiticides, D.D.T.; *Past.* Infection, in bovines; Phenothiazine; Venoms.
Metals, Metalloids and Salts. Occupational lead poisoning in man, 56; tissue lead concentration in disease, 56; calcium treatment of D.D.T. poisoning, 59; fluoride ingestion, 81; liver injury in dogs exposed to trichloroethylene, 118; of poultry by ammoniacal fertilizers, 166; Arsenic poisoning in cattle, 166; 199; agranulocytosis after sulphonamide sensitization, 166; copper poisoning in sheep, 199; dental fluorosis in sheep, 199; of horses by acetic acid, 200; D.D.T. poisoning, 201, 241, 449; selenium poisoning, 336; poisoning due to mobilization of lead from the skeleton by leucaemic hyperplasia of bone marrow, 340; toxicity of molybdenum, 240; toxicity of arsenicals, 241; lead poisoning of ducks, 278; fluorine effects in nutrition of sheep, 278; calcium cyanamied poisoning of game animals, 278; in domestic animals, by alcohol, lead, sodium nitrate, sodium chloride, copper sulphate, mercuric chloride, arsenic, carbon monoxide, cocaine, phosphorus, nicotine, 367; salt poisoning of sheep, 367; zinc phosphide poisoning in poultry, 367; lead poisoning of calves, treatment with magnesium sulphate, sodium citrate and potassium iodide, 399; chronic cobalt poisoning in g. pigs, 448; zinc toxicity in rats, 448; barium contamination of salt causing paralysis, 448.
See also Immunology, anaphylaxis; Sulphadiazine.
Plants. Toxicity of ergot, in rats, 25; ergotism in sows, rats and g. pigs, 450; food poisoning in cattle and horses due to *Claviceps paspali*, 25; of lambs by Charlock, 25; hydrocyanic acid content of manioc, 117; preparation of manioc and lima-beans as food, 117; anaemia of cattle due to marrow-stem kale, 166; of bulls by Bermuda grass, 200; toxic action of Bermuda grass, 449; cyanogenetic properties of linseed "nuts," 200, 318; detoxication of terpenes by sheep, 240; solanine poisoning in fowls, 240; toxicity of *Rhododendron arboreum*, 240; mangel poisoning, 240; Amanita phalloides, 241; poisonous plants in Oklahoma, 278; *Amphiachyris dracunculoides* poisoning, 278; experimental poisoning of sheep by orgalo, in New Zealand, 279; toxicity of tung meal for chicks, 279; in cattle, due to *Crotolaria spectabilis*, 334; poisonous plants of S. Africa, 368; toxicity of plants, 369; Daubentonia punicea poisoning in pigeons, 408; *Crotalaria spectabilis* poisoning of livestock, U.S.A., 449; poisonous properties of bracken, 449; toxicity of *Phyllanthus abnormis* for cattle, sheep and goats, 450.
POLAND. See *Simuliidae; Trichomonas* Infection, in cattle.
POLIOMYELITIS, 115; transmission, 46; immune serum for, in mice, 13; effect of fatigue, chilling and mechanical trauma on resistance to, in monkeys, 70; neutralization of virus by dog serums, 149; intraspinal inoculation in monkeys, 149; distribution of virus in intestines of mice, 189; in U.S.A., 302; differences among strains of virus in *Macaca mulatta*, 302; Lansing strain virus compared with mouse encephalomyelitis virus, 349; isolation of virus from sewage, 349; neuro-pathological study of, 432.
See also Immunology, vaccines.
POLL EVIL. See *Actinomyces bovis*.
POLYCYTHEMIA. Mechanism of cobalt polycythemia, 20.
POLYSACCHARIDES. See Neoplasms, treatment; Poisoning general.
POLYTHIOSOL. See Antibiotic Agents, general.
PORTUGAL. See *Babesia* Infection, in cattle; *Leishmania* Infection; Mastitis, Bovine, general; *R. conjunctivae* Infection; Services, Veterinary.
POTASSIUM, 54.
See also *Bartonella* Infection.
POX.
In Mice. Relationship between viruses of vaccinia and infectious ectromelia, 9.
In Birds. Antigenic properties of entire embryo fowl pox vaccine, 220.
In Sheep. Vaccination, 68.
PREGNANCY.
General, 49; in sheep, effect of corpus luteum, 55.
Diagnosis. Mitogenic radiation of blood of mares during pregnancy, 32; in cattle, 55; Cuboni's method, 174; principal and biological tests, 236; in domesticated buffalo, 407.
Diseases. Biochemical studies of pregnancy toxaemia in sheep, 79; pregnancy toxaemia in sheep, 91; domsiekte, pregnancy disease in sheep, 363; nutritional control of milk fever, 363; toxaemia, 381; effect of various diseases on, 440.
See also *Brucella* Infection; Foetus; Nutrition, diseases.
PROGESTERONE. See Hormones, sex hormones.
PROMIN. In treatment of leprosy, 280.
PROPAMIDINE. As fodder preservation, 249.
PROSTATE GLAND. Physiology of, 24; research on, in new-born, 448.
See also Genital System, general.
PROTEASE. Bacterial proteases, 40.
See also Bacteria General, metabolism.
PROTEINS, 41; and action of complement, 13; in production of tar-carcinoma, 18; proper use of during shortage, in U.S.A., 76; composition of tobacco mosaic virus protein, 190; in relation to deficiencies in mother's milk, 196; preparation and biological effects of iodinated proteins, 272; effect of iodinated proteins on lactating cow, 272; biological activity of iodinated proteins, 274; precipitation from antitoxic horse plasma, 352; formation of "ghosts" in implanted tablets, 446; combination of suramin with the plasma and other proteins, 453.
See also Amino Acids; Blood, chemical composition; Books, chemistry; Immunology, toxins; Metabolism, general; Therapeutics, general.
PROTEUS. Urease production by, 39; biochemical and serological relationships, 39; requirements of normal mice, 110; relation of haemoglobin and plasma protein to internal body protein metabolism, 113.
See also Bacteria General, general.
PROTOZOA. Nutrition of, 67; outline of protozoology, 136; growth in tissue culture, 138; a protozoan parasite of the C.N.S., 261; effect of phytoncides on, 322; tick-transmitted protozoa in peripheral blood of cattle, in Palestine, 346; cellulose digestion by, in rumen of cattle, 365.
See also *Anaplasma; Babesia; Bertolinella intestinalis; Eimeria; Entamoeba* Infection; *Leishmania; Leptospira* Infection; *Plasmodium; Spirochaete* Infection; *Theileria;* Therapeutics, general; *Tozoplasma; Trichomonas; Trypanosoma.*
PSEUDOMONAS, 42, 51, 81; proposed biochemical basis for, 39; dissociative behaviour of *Pseudomonas aeruginosa*, 340; a bacteriophage for *P. pyocyanea*, 340.
See also Antibiotic Agents, microbial derivatives.

PSEUDOTUBERCULOSIS. See *Past. pseudotuberculosis* Infection.
PSITTACOSIS, 310; immunity, 8; immunological studies on the psittacosis-lymphogranuloma group of viral agents, 46; spontaneous infection of mice with psittacosis-like organism, 189.
See also Penicillin.
PUBLIC HEALTH. Writing of health reports, 129; red squill as raticide, 284.
See also Cheese; Food Inspection, meat; Food Poisoning; Milk.
"PULLET DISEASE." See "Blue Comb" Disease.
PULLORUM DISEASE. See *S. pullorum* Infection.
PYAEMIA. Vaccination of rabbits against, 131.
PYRETHRUM. In control of Rickettsial infections, 101; in control of flies, 306.
See also Parasiticides, general.
PYROGENS. See Bacteria General, general.

Q

Q-FEVER. Transmission by *Ixodes holocyclus*, 190.
QUAIL. See Sulphonamide Compounds, therapy.
QUARANTINE. Uniform state regulations for imported livestock, 175.
QUININE. In treatment of *Plas. gallinaceum*, 98; rate of action on *Plas. gallinaceum*, 123.
See Bacteria General, pyrogens.

R

RABBIT RHINITIS (SNUFFLES). See *Pasteurella lepiseptica.*
RABBITS.
General. See Anatomy; Helminth Parasites, general; Hormones, general; Nutrition, general; Parasiticides, D.D.T.; Physiology; Technique, general.
Diseases of. See Achondroplasia; Influenza, in rabbits; Myxoma; Neoplasms, general, causation; *Past. tularensis;* Rhinitis; *Saccharomycopsis guttulatus; Staph. albus;* Sterility, general; Viruses, general.
Research work in. See Anaemia, Equine Infectious, diagnosis; Blood, chemical composition, picture; Immunology, antisera; Mastitis; *M. tuberculosis*, tuberculin; Neoplasms, immunity; Nutrition, diseases; Phenothiazine; Physiology; Pyaemia; *Rickettsia* Infection; *Streptococcus* Infection, in rabbits; *Trichinella* Infection, immunity.
RABIES.
General, 93, 287, 333; in India, 44.
Control, 44; methods for control of rabies and distemper in dogs, 70; results of compulsory rabies control in dogs in Hungary, 219; in India, 261; in foxes and badgers, 392.
Diagnosis. Ganglion nodosum in diagnosis, 81; histologic diagnosis, 99; diagnostic significance of inclusion bodies in, 223.
In Cattle, 9; in Brazil, 44; in U.S.A., 68.
In Foxes, 99.
In Man, 91; vaccination at Pasteur Institute, 44.
Immunization, 70, 382; vaccination at Pasteur Institute in 1941, 44; studies on virus immunity, 44; antigenic value of antirabic vaccinal emulsions, 261; vaccination of dogs, 298.
Transmission. Bat-transmitted, to horses, mules, goats, swine and sheep, 141.
Virus. Experiments with viruses of rabies and equine encephalomyelitis, 44; culture, 141; reactivation of rabies virus, 220; propagation in tissue culture, 428.
RADIATION. Action on viruses and bacteria, 428; causing cancer, 355.
See also Blue Tongue; Jaundice; Nematodes; Technique, general.
RADIOACTIVE ISOTOPES. See Metabolism, general.
RADIOACTIVITY. Biological dangers from atomic fission, 286.
RAT-BITE FEVER. New form in India, 216.
RAT LEPROSY. Observations and transmission, 339.
RATS.
General. Hosts of mites carrying scrub typhus, 71.
See also Amino Acids; ANTU; Helminth Parasites, general; Nutrition, general; Parasiticides, D.D.T.; Red Squill.
Diseases of. See Liver, diseases; Rat Leprosy; Vitamin E.
Research work in. See Anaemia; Blood, picture; Bones, fractures; Genital System, general; Hormones, general, sex hormones; Immunology, general; Influenza, virus; Jaundice; Kidneys, diseases; Leprosy, Rat; Liver, diseases; Neoplasms; Phosphorus; Poisoning, general, metals, metalloids and salts; Streptomycin; Sulphadiazine; Sulphamerazine; Teeth; Vitamins, A; B complex, D.
RECTUM. See Anatomy.
RED SQUILL. As raticide, 284.
REFRIGERATION. See *Plas. gallinaceum.*
REINDEER. See Foot Rot; Nematodes.
RELAPSING FEVER. See Penicillin; *Spirochaeta hispanica.*
RELAXIN, 367.
REPORTS. See Services, Veterinary.
Africa. W. Africa Commission 1938-39, 34.
Algeria. Pasteur Institute, 1941, 62; 1944, 382.
Australia. Australian Wool Board, 1942 and 1943, 91; Livestock disease report, 1943-44, 92; Council for Scientific and Industrial Research 1942, 176; 1943, 380; Council of Institute of Medical and Veterinary Science, 1943-44 and 1944-45, 382.
Basutoland. Department of Agriculture, 1944, 419.
Belgian Congo. Livestock industry in Belgian Congo, 382.
British Guiana. Department of Agriculture, 1943, 211.
British Honduras. Department of Agriculture, 211; Department of Agriculture, 1944, 287.
Canada. Ontario Veterinary College, 90.
Ceylon. Veterinary and Animal Husbandry, 1943, 333.
Cyprus. Department of Agriculture, 1944, 287.
Eire. Minister for Agriculture, 1943-44, 461.
Fiji. Department of Agriculture 1943, 61.
Gold Coast. Department of Agriculture, 1943-44, 93; Department of Animal Health, 1943-44, 177; Department of Animal Health, 1944-45, 287.
Great Britain. West of Scotland Agricultural College 1942, 61; Governing Body of the Lister Institute of Preventive Medicine, 1945, 251; of British Empire Cancer campaign, 1945, 437; County Borough of Preston, Medical Officer of Health, 1943, 418; Curator of the Laboratory, Royal College of Physicians of Edinburgh, 1942, 1943 and 1944, 418.
Grenada. Agricultural Department, 1941-42, 419.
Holland. Cattle Health Service, Friesland, 1943-44, 463.
India. Imperial Council of Agricultural Research, 1942-43, 251; Civil Veterinary Department, Sind, 1942-43, 252.
Jamaica. Department of Agriculture, 1943-1944, 93.
Mauritius. Department of Agriculture, 1943, 419.
Morocco. Pasteur Institute, 1943, 211.
New Zealand. Department of Scientific and Industrial Research, 1943-44, 93; nineteenth annual report of Department of Scientific and Industrial Research, 331.
Nigeria. Agricultural Department, 1943, 287; Veterinary Department, 1942, 461; 1943, 332.
Nyasaland. Veterinary Department, 1944, 420.
Panama Canal Zone. Gorgas Memorial Laboratory, 336.
Rhodesia. Game and Tsetse Control Department, 1943, 332.
Sierra Leone. Department of Agriculture, 1943, 419.
Swaziland. Veterinary and Agricultural Department, 1944, 419.
Tanganyika. Tanganyika Tsetse Research Department, 1944, 307; Department of Veterinary Science and Animal Husbandry, 1943, 462.
Trinidad and Tobago. Agricultural Policy Committee of Trinidad and Tobago, 418.
Uganda. Veterinary Department, 1944 and Veterinary Laboratory, 1944, 333.
Union of Socialist Soviet Republics. Central Laboratory for Disinfection, Ministry of Agriculture, 1943, 62.
Union of South Africa. Department of Agriculture and Forestry and of Food Control Organization, 1943, 61; Director of Abattoir and Livestock Market Dept., 1943-1944, 211; South African Wool Council, 1942-43, 380.
United States of America. Bureau of Animal Industry, 1944, 34; Montana Livestock Sanitary Board, 1943-44, 35; Poultry Research Laboratory, East Lansing, Michigan, 1943-44, 62; Division of Veterinary Science, Michigan State College, East Lansing, 1940-41-42, 93; of Secretary of Agriculture, 1942, 130; Los Angeles County Livestock Department, 1944, 177; Bureau of Entomology and Plant Quarantine, Agricultural Research Administration, 1943, 306; Administrator of Agricultural Research, 1943, 333; Agricultural Experimental Stations, 334; Division of Animal Industry, 1942-44, 336; New York State Veterinary College at Cornell University, 1941-42 and 1942-43, 382; Division of Veterinary Science, East Lansing, 1944, 462.
Zanzibar. Department of Agriculture, 1944, 419.
RESEARCH. Co-ordination and direction of, in U.S.S.R., 33; applied to animal production, 90; in animal husbandry, 174; of National Cancer Institute, U.S.A., 230; research work of Omsk Veterinary Institute for past 25 years, 459; work of Council for Scientific and Industrial Research, animal health and nutrition, 459.
RESPIRATION, ARTIFICIAL. See *Cl. botulinum* Infection.
RESPIRATORY SYSTEM.
Diseases. Differential diagnosis of, in fowls, 50; effect of sodium benzoate, 241; use of alcohol in treatment of pulmonary affections in horses, 283; oleum terebinthinae therapy of catarrhal infections of the horse, 375; mass sulphadiazine prophylaxis of, 413; chemotherapy of

RESPIRATORY SYSTEM—Diseases—[cont'd.].
upper respiratory infections, 413; effect of oiled floors and bedding on incidence of, 458.
See also Emphysema; Lung; Sulphapyridine.
Introduction of Infection by. Of mice with *M. tuberculosis*, 37.
RETICULO-ENDOTHELIAL SYSTEM. In canine histoplasmosis, 41; in swine fever, 69.
See also Books, physiology; *Brucella* Infection, general; Immunology, antisera; Sulphathiazole.
RHESUS FACTOR. Sensitization to, by blood transfusion, 114; Rh blood factors, 276.
RHEUMATISM. In goats and sheep in India, 10.
RHINITIS. Aetiology of infectious rhinitis of rabbits, 46, 339.
RHINOSPORIDIUM INFECTION. In a horse, in Argentine, 97.
RHIPICEPHALUS SANGUINEUS. Life history, 47.
RHODESIA. See Fodder; Reports.
RIBOFLAVIN. See Vitamins, B_2.
RICKETS. Treatment with vitamin D, 125; influence on tibiae of rats, 234; occurrence in calves, 404.
See also Vitamin D.
RICKETTSIA INFECTION. Studies on scrub typhus (tsutsugamushi disease) in New Guinea, 70; scrub typhus as a war disease, 71; Giroud's intradermic test in typhus fever, 72; Weil-Felix test in typhus fever, 72; discussion on control, 101; effect of enzyme inhibitors on multiplication of typhus rickettsiae, 101; scrub-typhus vaccine, 150; Cultivation of *R. tsutsugamushi* in lungs of rodents, 150; protective action of exanthematic typhus vaccines, 150; murine typhus, 211; tsutsugamushi disease, immune rabbit serum in infected mice, 225; effectiveness of *p*-aminobenzoic acid, 282; histology of lungs of mice infected with typhus rickettsiae, 303; serological relationship of rickettsia of epidemic and murine typhus, 350; pulmonary rickettsial infection of sheep, 350; epidemiology of scrub-typhus; studies of typhus fever, 394; rickettsia-like organism from a g. pig, 394; Rickettsias of domestic animals, 394; serological study of 37 cases of scrub typhus, 432; complement fixation in scrub typhus, 432; scrub typhus, 438.
See also Eyes, diseases; Pneumonia, Rickettsia; Q-Fever; Therapeutics, general.
R. CONJUNCTIVAE INFECTION. Of sheep, cattle and pigs, in Portugal, 265; experimental treatment in cattle with eleudron and tibatin, 322; transmission by flies, and viability of *R. conjunctivae*, 350.
See also Eyes, diseases.
RICKETTSIA RUMINANTUM INFECTION [HEARTWATER], 101; susceptibility of springbuck to, 265; relationship of agent of heartwater fever, 394; Weil-Felix reaction in dogs, 394; first record of, in Somaliland, 432.
See also Technique, parasitological.
RIGOR MORTIS, 235; nature of, 366.
RINDERPEST.
General. Cutaneous rinderpest in India, 10; in W. Africa, 34; infectivity of cattle reacting to Kenya attenuated rinderpest goat virus, 100; *in vitro* action of acaprin on piroplasms in rinderpest-virulent blood, 146; in goats in Malaya, 148; in Ceylon, 333.
Control. In Gold Coast, 177; in India, 85; in Burma, 86; in game, limitation by a bush fence, in Africa, 147; methods of control in Madras, 222; in Rhodesia, 332.
Immunization, 287, 332, 333, 419, 420, 461, 462; in India, 172; by a scarification method, 222; preparation of tissue and egg vaccine, 261, 262; immunity reactions; experiments with inactivated bovine tissue vaccines, 261; vaccination with spleen emulsion, 301; serum therapy, 348; in Africa, 378.
Virus. Cultivation in developing hen's egg, 261.
RINGWORM. Cultivation of fungi, 5; role of animal type dermatophytes in human ringworm, 259; problem of non-fluorescent ringworm (microsporon infection), 294; phemerol treatment for ringworm in calves,
RODENTS. See Grey Lung Virus; *Past. tularensis; Rickettsia* Infection.
ROTENONE. For ectoparasites, 226.
See also Parasiticides, general.
RUBELLA. In pregnancy causing congenital defects in the child, 196.
RUMEN, 79; significance of bacteria and protozoa in rumen of bovine, 23.
See also Vitamins, B complex.
RUPTURE. See Uterus.

S

SACCHAROMYCOPSIS GUTTULATUS. Pathogenicity for rabbits, 259.
SALMONELLA GROUP.
General, 57; detection of pathogenic salmonella in poultry, 135; strains isolated in Palestine, 182; strains of monophasic *S.* variant, 340; occurrence in Australia, 340; isolation from hen's eggs, 340; bacteriology of salmonella group, 384.
See also Technique, bacteriological.
Antigens. Occurrance of, in cultures of coliform organisms, 388.
Viability. Viability on artificially contaminated vegetables, 388.
SALMONELLA INFECTION.
General. In domestic animals and relation to food infection, 64; control of, in cattle in Germany, 96.
In Eggs. In ducks' eggs, 60; in dried egg powder, 64.
Treatment. Specific serum therapy in typhoid fever, 266.
S. ABORTUS-EQUI, 64, 183.
S. ADELAIDE. From enteritis in man, 64.
S. ANATUM, 64, 183, 458.
S. BALLERUP, 388.
S. BAREILLY, 64, 458.
S. BOVIS MORBIFICANS, 183.
S. CERRO, 458.
S. CHESTER, 183.
S. CHOLERAE SUIS, 64, 103, 133, 154; experimental infestation of swine, in U.S.A., 4; in man, 183.
S. DERBG, 64, 458.
S. DUBLIN, 64, 97, 172, 287, 309, 327; in calves, 49.
S. ENTERITIDIS, 64, 85, 154, 183, 327, 377; duration of viability, 96; effect of diet on response of *Mus musculus* to *S. enteritidis* infection, 135; infection with leg deformity in turkeys, 388.
S. GALLINARUM, 135, 183; in reacting hens, 340.
S. GLOSTRUP. In man, 183.
S. KENTUCKY, 183, 458.
S. KIRKEE, 183.
S. KOTTBUS, 183.
S. LONDON, 183, 458.
S. MANHATTAN, 64.
S. MELEAGRIDIS, 458.
S. MINNESOTA, 64.
S. MONTEVIDEO, 388, 458; in man, 183.
S. MUENCHEN, 183.
S. NEWINGTON, 458; in man, 183.
S. NEWPORT, 64; in man, 183.
S. ORANIENBURG, 64, 183, 388, 458.
S. OREGON, 458.
S. PARATYPHI, 84, 97, 103, 154, 215; in man, 183.
S. POTSDAM, 64.
S. PULLORUM INFECTION [BACILLARY WHITE DIARRHOEA].
General, 35, 64, 91, 135, 154, 309, 388, 461; trials with preservatives, 5; defence mechanism of hereditary resistance to pullorum disease, 40; transmission by flies, 65; in the uru, in Brazil, 65; in turkeys, 91; a strain differing antigenetically from usual type, 215; in Holland, 340; in reacting hens, 340; studies in; serological differences in strains of; effect of bacteriophage; homologous and heterologous antigens; whole blood tests; transmission by contact, 424.
See also Apparatus.
Control. In Canada, 135; effect of sulphonamides, 243; eradication in Massachusetts, 293; in U.S.A., 335.
S. READING, 183, 377.
S. RUBISLAW, 458.
S. SCHOTTMULLERI, 154.
S. SENFTENBERG, 458; in man, 183.
S. SUISPESTIFER. See *S. cholerae-suis*.
S. TEL-AVIV, 183.
S. TENNESSEE, 458; in frozen whole and powdered egg, 254.
S. THOMPSON, 64; isolation from chickens, 257.
S. TYPHI, 248, 388; duration of viability, 96; in man, 183.
S. TYPHI-MURIUM, 64, 85, 97, 135, 154, 183, 309, 327, 377, 388, 458; duration of viability, 96; control of infection in birds, 214; in man and animals, 257; snakes, cats and flies as carriers, 257.
SANDWORM. In man in South Africa, 102.
SAPROPHYTES. As a source of error in TB diagnosis, 292.
SARCOSPORIDIOSIS. In man and g. pig, 8; incidence of, 140.
SCABIES. See Mange.
"SCHANDAU." See Mouse Pneumonia.
SCHISTOSOMA. See Helminth Parasites; Immunology, agglutination; Technique, parasitological.
SCRAPIE. In Canada, 10.
SCREWWORM. See *Cochliomyia*.
SCRUB TYPHUS. See *Rickettsia* Infection.
SEBORRHOEA. See Skin, diseases.
SELENIUM. Relation of, to western duck sickness [botulism], 342.
SEMEN. Assessment of fertility, 24; effect of rate of cooling on preservation of, 24; use for artificial insemination, 80; in diagnosis of bovine infertility, 80; proportion of abnormal spermatozoa in, 80; examination for

SEMEN—[cont'd.],
sterility, in bulls, **157**; metabolism, occurence of cytochrome, enzymes and coenzymes, **277**; properties of stored semen, **317**; vitamin content, **335**.
See also Spermatozoa; Technique, general.
SEPTICAEMIA. Isolation of *Bact. friedländeri* from a case in sucking pig, **39**.
SERVICES, VETERINARY, **461**; mechanization of Indian vet. services, **31**; activites of civil vet. departments in India, **31**; in U.S.A., **60**; in U.S.S.R., **60**; in armies of India and Burma, **85**; U.S. army vet. services in Australia, **86**; Veterinarian and the war, **86**; Veterinary science in rural reconstruction, **86**; Veterinary problems in Russia for 1943, **86**; in Portuguese Empire, **87**; problems of veterinary science in 1943, in U.S.S.R., **127**; Army Veterinary Services and military dairy farms in India, **172**; Army Veterinary Service at Mitchen Field, N.Y., **172**; R.A.V.C. in British Occupied Germany, **208**; Veterinary service and animal husbandry, **208**; Army Veterinary Services, **327**; animal conference of Dominion Council of Canadian Fur Breeders, **331**; Colonial Veterinary Services during the war, **378**; in New Zealand, **379**; in Belgian Congo, **383**; Madras Serum Institute, **416**; Dutch Veterinary Service, **459**.
See also Food Inspection, meat.
SEX. Effect of sex on development of pig, **80**; training polygamous male (foxes), **175**; principles of genetics, **211**; sexual activity of sheep, **381**.
SHEEP.
General. Hill sheep farming, **89**; cause of death of merino rams after rail journeys, **195**.
See also Books, animal husbandry; Insemination, Artificial; Vitamin A., D; Zootechny.
Arthropod Parasites. See Arthropod Parasites; Blowfly; Mange; Parasites General; Parasiticides, D.D.T.
Bacterial Diseases. See Actinobacillosis; *B. anthracis* Infection, immunization; Clostridium Infection; Foot Rot; *M. tuberculosis*, tuberculin; *M. tuberculosis* Infection, in sheep; *Past. pseudotuberculosis* Infection; *Past. tularensis; Vibrio* Infection.
Diseases General. Deficiency diseases, **92**; control of disease in sheep, **231**.
See also Brain diseases; Cobalt; Copper; Laryngitis; Pregnancy, diseases.
Genital System. See Hormones, sex hormones; Oestrus; Pregnancy.
Helminth Parasites. See Echinococcus; Filaria; Helminth, general; Nematodes; Parasites General; Phenothiazine; Staggers; Trichostrongyles.
Physiology. See Blood, picture; Fleeces; Hormones, sex hormones; Oestrus; Physiology; Skin, general; Water.
Poisoning. See Parasiticides, D.D.T.; Poisoning, metals, metalloids and salts, plants.
Rickettsial Infections. See Eyes, diseases; *Rickettsia* Infection; *R. conjunctivae* Infection.
Virus diseases. See Jaagsiekte; Neoplasms, general; Rabies, transmission; Smallpox.
SHEEP SCAB. See Mange.
SHIGELLA, **57**; sulphonamides in *Shigella* Infections, **204**.
SHIGELLA DYSENTERIAE, **84**, **427**.
SHOCK. Nature and treatment, **108**; experimental shock in dogs, **109**; prothrombin levels of animals in shock, **109**; haemorrhagic shock, relative effect of amino acids, amigen and gelatin in dogs, **284**; role of bacteria in shock due to crushed muscle, **376**; prevention by pressure dressing, **376**.
See also Blood, plasma.
SIERRA LEONE. See Reports.
SILVER. See Therapeutics, general.
SIMULIIDAE. In Poland, **226**.
SIPHONA. Bovine mastitis following injury by, **1**; in Australia, **92**, **380**; problems of buffalo fly infestation, **307**; spread and control of buffalo fly in Queensland, **[illegible]**.
SK-PREPARATION. Study of SK-dust, **323**.
SKIN.
General. Regeneration of epidermal tissue in oral mucous membrane, **239**; changes in, after "durosept" treatment, **247**; sterility of hands of metal workers, **251**; Skin bacteria and skin sterilization, **343**; biology of skin of the sheep, **363**; skin and reticular tissue, **401**; anatomy of cutaneous sensibility, **447**; course of cleavage lines in skin of domestic animals, **447**; healing of skin wounds, **455**.
See also Burns.
Diseases. Rat mite dermatitis, **103**; seborrhoea in horses, **196**; Lumpy skin (Knopvelsiekte) disease in cattle, **222**; dermatitis from mites in straw, **227**; a dermatitis peculiar to bovines, **231**; Spergon, a fungicide for summer eczema in dogs, **244**; relation of gonadal hormones to certain dermatoses, **246**; mycotic dermatitis ("lumpy wool") and fleece rot of sheep, **342**; caused by dietary deficiencies, **362**; non-parasitic pruritus in dogs, **400**; histopathology of allergic skin reactions, **434**; eczema in dogs, **439**.
See also Neoplasms.
SLAUGHTER. Collection of animals for, in India, **33**.
SMALLPOX. Preparation of dry vaccine, **141**; relation of human and animal variolas, **141**; influence of sulphonamides on variola-vaccine virus, **245**; variola in sheep and vaccination, **298**; and pregnancy, **440**.
SNAILS. Bionomics of *Stagincola bulimoides techella*, **46**.
SNAKE BITE. See Poisoning, general; Venoms.
SNAKES. See *S. typhi-murium;* Poisoning, general; Venoms.
SODIUM, **54**.
SODIUM AZIDE. Fungistatic and fungicidal properties of, **281**.
See also Bacteria General, growth.
SODIUM CHLORIDE. Significance in studies of staphylococci, **179**.
See also Poisoning, metals, metalloids and salts.
SODIUM FLUORIDE. See Anthelmintics, for swine; Parasiticides, general.
SODIUM IODIDE. See Encephalomyelitis, Equine, treatment.
SODIUM THIOSULPHATE. See Mange, treatment.
SOLUPYRIDINE. Therapeutic activity and toxicity, **202**.
SOLUTHIAZOLE. Therapeutic activity and toxicity, **202**.
SOLYAR OIL. See Insecticides.
SOMALILAND. See *M. tuberculosis* Infection, diagnosis; *R. ruminantum* Infection.
SPERGON. See Skin, diseases.
SPERMATOZOA. Livability and glycolysis of bovine spermatozoa in yolk citrate, incubated eggs and chick-embryo diluters, **115**; factor in egg yolk affecting storage, resistance and fertility of spermatozoa, **163**; increase of fertilizing power by hyaluronidase, **198**; effect of concentration in A.I., **237**; hereditary groups, **315**; effect of temperature, pH, diet, **335**; maintenance and restoration of spermatogenesis in hypophysectomized rhesus monkeys by androgen, **366**; stimulation of livability and glycolysis by additions of glucose to the diluent, **407**; morphology of bull sperm, **445**.
See also Fertility; Insemination, Artificial; Semen; Technique, general.
SPIROCHAETA HISPANICA. Susceptibility of animals to, **219**.
SPIROCHAETE INFECTION, **461**; cutaneous spirochaetosis of the pig in Eritrea, **99**.
SPIROCHAETE INFECTION, AVIAN. Outbreak in fowls, in Germany, **8**.
SPIRURIDS. Relationship between *Habronema muscae* and the housefly, **105**.
SPLEEN. Of hyperimmunized swine, **46**; effect of spleen extract on bacteria, **185**; histopathology of, in equine infectious anaemia, **144**; splenectomy in the dog, **155**; in human leucosis, **376**; double spleen in a goat, **401**; endocrine function of, and its part in pituitary-adrenal response to stress, **446**.
See also Blood, picture; Immunology, antisera; *M. tuberculosis*, general; Rinderpest, immunization.
SPORES. Scattering of air-borne spores, **390**.
SPOROTRICHON INFECTION. Equine sporotrichosis, **184**.
SPOROZOITES. In development of *Plas. praecox*, **260**;
See also *Plasmodium gallinaceum*.
SPRINGBUCK. See *Rickettsia ruminantum* Infection.
SQUIRRELS. See *Leishmania* Infection.
STAGGERS. Allergic reaction for diagnosis of coenurosis in sheep, **227**; surgical treatment of coenurosis in sheep, **308**.
STAPHYLOCOCCUS.
General. Causing food poisoning, **31**; combined action of penicillin and bacteriophage on, **57**; coagulase test for, **179**; significance of sodium chloride in studies of, **179**; staphylococcal fibrolysin, **179**; differentiation of pathogenic and non-pathogenic, **337**; influence of coagulase on phagocytosis of staphylococci, **427**; Duran-Reynals spreading factor in staphylococci, **266**; susceptibility to bacteriostatic action of antibiotics, **451**.
See also Botryomycosis; Penicillin; Technique, bacteriological.
Toxins. See *Staphylococcus* Infection, treatment.
STAPHYLOCOCCUS INFECTIONS.
Treatment. Anatoxitherapy in veterinary medicine, **253**; treatment of staphylococcal infections with anatoxin, **385**; significance of the negatively chemotactic substance in staphylococcal infections, **385**.
STAPH. ALBUS, **42**, **51**, **413**; causing ulceration, in rabbits, **[illegible]**.
STAPH. AUREUS, **37**, **42**, **51**, **57**, **119**, **215**, **252**, **320**, **327**, **377**, **410**, **456**; formation of aryamine from tryptophane by, **119**; inhibition of growth, **167**; genetic development of strains resistant to penicillin, **242**; effect of mycophenotic acid on growth of *Staph. aureus* in heart broth, **253**; role of niacin and thiamine in metabolism of glucose by, **343**; restoring phenol resistance, **343**; tissue extracts in control of *Staph. aureus* infections, **373**; effect of extracts of, on various bacteria, **427**.
STAPH. CITREUS, **42**.
STAPH. PYOGENES, **81**.

STERILITY.
General, 463; experiences of a sterility officer, 109; bacterial cause of, in rabbits, 134; observations on sterility, 157; insufficiency of corn-soyabean ration for swine, 234; elimination in farm animals, 236.
In Cattle. Due to T. foetus, 75, 137; diagnosis, 80; and control of brucellosis, 97; during brucellosis, 183; of bulls, 157.
STERILIZATION. See Technique, general.
"STIFF-LAMB" DISEASE. Prevention and cure, 169.
STILBOESTROL. Dosage for induction of heat, 116.
See also Bones, fractures; Mammary Gland; Oestrus.
STOMACH. Lactic acid and ascorbic acid contents, of cattle, 23.
See also Blowfly; Physiology; Technique, general.
STOMATITIS. In cattle, 231; in sheep, 287.
STOMATITIS, VESICULAR. In cattle and horses, in Colorado, 187; effect of temperature, phenol and crystal violet on virus of, 430; in swine, 219.
STRANGLES, 156; "equisal" and "iodoxylan-vaccine" for, 280.
See also *Streptococcus equi* Infection.
STREPTOBACILLUS MONILIFORMIS, 180.
STREPTOCOCCUS.
General. Causing food poisoning, 31; virus nature of infectious agent from "neurotropic" alpha streptococci, in mice, 258; types of streptococci in bovine mastitis followed by outbreaks of human disease, 337; a proteolytic enzyme produced by, 385; bacteriostatic effect of human sera on, and interference with bacteriostatic activity by blockage of leucocytes, 385.
See also Bacteria General, growth; Milk, bacterial content; Penicillin; Pneumonia; Technique, bacteriological.
Lysins. Lytic phenomenon in Group B streptococci, 179.
STREPTOCOCCUS INFECTION.
General. Lesions produced by, 2.
In Fowls, 1.
In Rabbits. Susceptibility of rabbits to infection with haemolytic streptococci, 131.
STR. AGALACTIAE, 37, 82, 95, 131, 172, 179, 254, 369, 370; in U.S.A., 2; and penicillin sodium, 168; association with bovine mastitis, in Australia, 253; in milk from beef cows, 337.
STR. DYSGALACTIAE, 37, 370.
STR. EQUI INFECTION. In India, 85; vaccination, 179; Cross-immunity, 386; relations between virulence and immune response, 386.
STR. PYOGENES, 60, 131.
STR. UBERIS, 37; causing mastitis, 289; behaviour in milk, 386.
STR. VIRIDANS, 51; in geese and ducks, 426.
STREPTOMYCIN. Chemotherapeutic action of streptomycin and promin in experimental TB, 121; in TB, 280; tuberculostatic action, 320; properties of, 372; induction of nutritional deficiency by oral administration to rats, 372; influence on intestinal flora of mice, 372; blood levels and urinary excretion, 451.
See also Hydrogen Ion Concentration.
STREPTOTHRICIN, 168; pharmacological studies, 372; influence on intestinal flora of mice, 372; in experimental TB, 410.
STRONGYLES. Prophylaxis of equine strongylosis, 16; examination of faeces for, 16; effect of chloropicrin on eggs and larvae, 16; phenothiazine for, 35; changes in species proportions after treatment with copper-arsenic-aniline compounds "Cholivetrat" and "Cuprosolvin," 58; *Hyostrongylus rubidus* in pigs, 192; pathogenicity of hookworm *(Bunostomum trigonocephalum)*, in lambs, 354.
See also Phenothiazine.
STRONGYLOIDES. *S. stercoralis* among apes, in zoo in France, 15; of primates, 104.
SUBTILIN. See Antibiotic Agents, microbial derivatives.
SUDAN. See Fodder.
"SUILYUK." See Broncho-Pneumonia.
SULPHADIAZINE, 57, 58, 166; erythema multiforme bullosum following use of, 118; anticlostridial activity, 120; rate of action on *Plas. gallinaceum*, 123; hepatic necrosis caused by sulphadiazine, 200; influence of casein on production of renal lesions in rats by sulphadiazine, 207; in treatment of anthrax, 370; prophylaxis of respiratory diseases, 413; effect on action of penicillin, 451.
See also Sulphonamide Compounds, therapy; Technique, bacteriological.
SULPHAGUANIDINE, 370.
See also *Eimeria* Infection, treatment; value in swine coccidiosis, 410.
SULPHAMERAZINE. Effect on lymphoid tumour of the fowl, 125; *in vitro* action on enteric pathogens, 240; therapy of caecal coccidiosis, 373; effect on pulmonary infections in mice, hamsters, rats, 454.
See also Sulphonamide compounds, therapy.
SULPHAMETHAZINE, 58; in treatment of coccidiosis, 282.
See also Sulphonamide compounds, therapy.
SULPHAPYRIDINE, 58; in treatment of TB, 82; in treatment of bovine mastitis, 167; effect on blood picture of horses and use in respiratory system diseases, 203.
SULPHAQUINOXALINE. Absorption and excretion in a ruminant, 82.
SULPHATHALIDINE. In treatment of enteritis in swine, 204.
SULPHATHIAZOLE, 57, 166, 370; treatment of joint-ill in foals, 26; in treatment of impetigo, 82; anticlostridial activity, 120; effect on lymphoid tumour of the fowl, 125; mode of action in the organism, and relation to reticulo-endothelial system, 167; as an aid to healing in horses, 170; synergic action on *Bact. typhosum*, 320; experimental use for turkeys, 371; for parrot pneumonia, 411; modification of caecal flora of white rats by, 426.
SULPHONAMIDE COMPOUNDS.
General. *In vitro* effects of *p*-aminobenzoic acid derivatives on, 119; new sulphonamides unaffected by *p*-aminobenzoic acid, 167; action of pyridine β-sulphonamide and analogy with nicotinamide, 119; mechanism of resistance to sulphonamides, 119; as fodder preservative, 249; in general veterinary practice, 369; sulphonilamide in veterinary medicine, 452; bacteriostatic activities of, 119, 423.
See also Books, physiology.
Mode of Action, 243; absorption in chicks and canary, 58; action on respiration and growth of bacteria, 167; inhibition by sulphonamides of carboxylases, 167; action on gram-negative bacteria, 203; influence on variola-vaccine virus, 245; in horses, 280; inhibition of drug precipitation in urinary tract by, 320; *in vitro* and *in vivo* investigations on sulphonamides and the organisms causing gas gangrene, 321; *in vitro* action on actinomyces, 371; combined action of penicillin and sulphonamides *in vitro*, 409; Nature of antibacterial action, 410; effect on glanders bacilli *in vitro*, 410; relation between blood sulphanilamide concentration and dosage, 452; effect of host in action of sulphonamides on elementary-body agents of murine and feline pneumonitis, 454.
Therapy, 61, 213; toxicity and therapeutic effect of diasone, in mice, 26; of *Cl. welchii* infection, 26; sulphamethazine, *in vitro* action on enteric pathogens compared with sulphadiazine and sulphamerazine, 57; effects on *Eimeria tenella*, 57; use of sulphonamide drugs, 82; action on Bact. friedländeri, 96; in experimental TB, 121, 370; in experimental swine erysipelas, 121; in experimental gas gangrene, 121; in treatment of ulcerative enteritis of quail, 121; action on helminths, 169; of enteritis in swine, 204; in *Shigella* infections, 204; of actinomycosis, 204; reducing mortality from pullorum disease, 243; of nervous forms of dog distemper, 245; of mastitis due to *Cl. perfringens*, 258; of *E. rhusiopathiae* infections in mice, 370; of human shigellosis, 371; in treatment of coccidiosis, 410, 411.
See also Burns; Mastitis, Bovine, treatment; *Streptococcus* Infection, general, in fowls.
Toxicity. Of diasone, 26; agranulocytosis after sulphonamide sensitization, 166; causing anaphylaxis, 200; toxicity for chickens, 318.
SULPHONES. In experimental TB, 452.
SULPHUR. See *Eimeria* Infection, treatment.
SURAMIN. See Proteins.
SURRA. See *Trypanosoma evansi* Infection.
SWAZILAND. See Reports.
SWEAT. Failure of sweat mechanism in the desert, 76; hyperhydrosis in a horse, 400.
SWEDEN. See Law, Sweden; *M. tuberculosis* Infection, in man.
SWEET CLOVER DISEASE, 368.
SWINE.
General. See Ears, general; Nutrition, general.
Bacterial Diseases. See *Bact. equirulis; Bact. friendlānderi; Brucella* Infection, in swine; *E. rhusiopathiae* Infection.
Diseases General. Principal diseases of, 232.
See also Brain, diseases; Circulatory System, diseases; Genital System, diseases; Heart, diseases; Neoplasms, general; Nutrition, diseases; Pityriasis; Vitamin A, B complex, B_2.
Helminth Parasites, 73.
See also Anthelmintics, for swine; Echinococcus; Helminth Parasites, general; Strongyles; *Trichinella* Infection, general.
Physiology. Effect of sex on development, 80.
See also Blowfly; Immunology, antibodies; Physiology; Water.
Protozoan Diseases. See *Spirochaete* Infection.
Rickettsial Diseases. See *R. conjunctivae* Infection.
Virus Diseases. See Encephalomyelitis, porcine; Influenza, Swine; Rabies, transmission; Swine Fever.
SWINE FEVER.
General, 92, 178, 419, 462; resistance of peccaries to, 45; studies of spleens of hyperimmunized and unimmunized swine, 46; outbreak in Australia, 69; role of associated

SWINE FEVER—General—[cont'd.].
bacteria and reaction of reticulo-endothelial system, 69; incidence in wild boars, 349.
See also Chlorine.
Immunization, 62, 264, 301, 382; crystal violet vaccination, 69; duration of immunity induced by Boynton's tissue vaccine, 148; crystal violet vaccine for, 223.
SWITZERLAND. See Anaemia, Equine Infectious, control; Catarrh, Bovine Malignant; F and M Disease, immunity; Horses, general; Law, Switzerland.
SYLVATIC PLAGUE. See *Pasteurella* Infection, in rodents.

T

TADPOLES. See Biochemistry.
TAENIA MULTICEPS, 89.
TANGANYIKA. See Reports.
TAPEWORMS. See Cestodes.
TASMANIA. See Nutrition, diseases.
TECHNIQUE.
General. Of assessment of fertility by semen analysis, 24; Wharton's jelly as conducting path, 24; effect of Seitz filtration upon pH, 32; standardization of sedimentation rate, 32; use of peristan for blood transfusion in dog, 32; mitogenic radiation of blood of mares during pregnancy, 32; collection of blood aseptically from rabbits, 88; intravenous transfusion, 88; direct blood transfusion in horses, 88; photo-electric estimation of total haemoglobin, 88; method for operating on pharynx and larynx of horses, 89; Germany, regulation concerning standards of measurement, 89; pressure cuffs for experimental shock, 109; estimation of penicillin in blood serum, 173; latex in the preparation of corrosions of mammary glands, 129; absorbable oxidized cellulose with thrombin as haemostatic agent in surgery, 174; clinical determination of arterial blood pressure in horses, 197; Romanovsky staining of blood films, 209; culturing fungi from the scalp, 250; steam pressure sterilization, 251; closure of pervious urachus in foals, 251; Romanovsky staining, 285; glyoxal and furfural as substitutes for formaldehyde in tissue fixation, 285; modified bromthymol-catalase test for examination of bull semen, 286; microscopic examination of bull sperms, 286; control of number of blowflies in screened houses, 286; testing absorption from ointment bases, 325; method for standardization of haematocrit readings, 329; aspiration biopsy of the liver in sheep, 329; sterilization and sterile preservation of syringes and needles, 329, 416; stomach-tube feeding of small laboratory animals, 330; intubation of abomasum in sheep, 330; tailing of lambs, 330; vapourization of glycols for air sterilization, 416; primary standard for colorimetric determination of haemoglobin, 460; formol-gel test in hepatic and renal affections in dog, horse and ox, 356; cross-test for blood for transfusion in horses, 364; assay of anthelmintic properties of drugs, 374.
See also Apparatus; Blood, serum; Books, technique; Milk, hygiene; Penicillin; Semen.
Bacteriological. Comparative study of g. pig inoculation and cultures for demonstration of tubercle bacilli, 31; isolation of *Bact. typhosum* and *Bact. paratyphosum B*, selective value of four modifications of Wilson and Blair's bismuth sulphite agar, 31; Counting bacteria, 60; opsonocytophage test for *Br.* infection, 65; errors in microscopic examination of sputum for TB, 87; attenuation of tubercle bacilli by cultivation on bile-potato medium, 87; growth of M. tuberculosis on embryonic tissue containing penicillin, 87; cultivation of human tubercle bacilli on egg medium, 87; relative value of liquid media, glucose cystine blood agar, and mouse inoculation in titration of *Pasteurella tularensis*, 87; selective medium for isolation of salmonella bacilli, 87; mastitis diagnostic methods, 95; microscopic methods of measuring bacterial cell, 128; identification of *Cl. welchii* by cultural reaction, 173; production of potent inactivated vaccines with ultraviolet irradiation, 209; silver stain for demonstration of bacteria, spirochaetes and fungi, 210; rapid examination of food suspected of staphylococcal poisoning, 250; cultivation of *Borrelia gallinarum*, 250; influence of shaking on *in vitro* production of soluble bacterial toxins, 250; determining coagulase activity of staphylococci by plasma agar plate, 284; staining of tubercle bacilli by Hallberg's method, 284; demonstration of tubercle bacilli in infected material, 328; substrates for transfer of anaerobes from colonies on agar blood surface, 328; calculation of potency of penicillin, 379; physical sterilization of micro-organisms, 379; *in vitro* determination of resistance of beta haemolytic streptococci to sulphadiazine, 417; rapid detection of gelatin-liquifying organisms, 460; large-scale production of tetanus toxin, 460; fluid thioglycollate for sterility test, 460.
See also Immunology, general; Media, Culture; Milk, pasteurization; *Salmonella*, general.
Parasitological. Silver nitrate and acetic acid staining of *Toxocara canis*, 17; preserving trichinosed flesh, 31; pure culture of *Trichomonas foetus*, 85; silver impregnation method for study of internal morphology of microscopic invertebrates, 88; Mules operation, 89; serial passage of Plas. gallinaceum in chick embryos, 128; demonstration of *Rickettsia ruminantum* in heartwater brains, 128; flocculation slide test for trichinosis in man and swine, 128; rearing of laboratory colony of body louse, 209; isolation of microfilariae from blood for use as antigen, 209; concentrating malaria parasites in thin films, 209; rapid staining of malarial parasites, 209; microtechnique useful in microentomology and parasitology, 285; methods for recovery of *Schistosoma mansoni* eggs, 285; medium for mounting parasitic helminths, 285; cultivation of *T. evansi*, 328; cultivation of some spirochaetes and protozoa, 328; artificial digestion for demonstration of trichinosis, 328; use of Field's stain, 328; anthelmintic tests in cattle, 374; method of examination of faeces for *Schistosoma*, 460.
Viruses. Storage of influenza virus, 128; isolation of influenza virus from throat washings, 188; staining of Negri bodies in rabies, 417; microscopic observation of bacteriophage, 432; size determination of bacteriophage particles by sensitivity to friction, 433.
See also Immunology, agglutination.
TEETH. Dental fluorosis in sheep, 199; effect of cadmium and fluorine on rat dentition, 359; prophylactic against "distemper teeth" of dogs, 455.
See also Vitamin D.
TEMPERATURE. Effect of atmospheric temperature on body temperature and respiration rate, 79; thermogenic effect of progesterone, 162; in relation to female fecundity and ovarian function, 162; effect of environmental temperature on influenza in mice, 187; effect of, on susceptibility of chick embryo to influenza viruses, 187; effect on vesicular stomatitis virus, 430; effect on antigenicity of tetanus toxoid, 266; influence on survival of coliforms and enteric pathogens exposed to chloramine, 456; effect of body temperature on drug action, 408.
See also Anaemia, Equine Infections, virus; Antibiotic Agents, disinfectants; Eggs; Helminth Parasites, control; Sweat.
TESCHEN DISEASE. See Encephalomyelitis, porcine.
TESTICLE. See Genital System, general.
TESTOSTERONE. See Genital System, general; Hormones, sex hormones.
TETANUS. See *Clostridium tetani* Infection.
TETMOSOL. See Mange, treatment.
TETRACHLORETHYLENE. See Anthelmintics.
THEILERIA INFECTION, 33, 61, 67, 391, 419, 420; in calves, in India, 7; incidence of East Coast fever in Nyasaland, 218.
THELAZIA. Ocular thelaziasis in cattle, 17.
THERAPEUTICS.
General. Use of micro-organisms for, 81; effects of an unfractionated pituitary extract in cystic ovaries and nymphomonia in cows, 125; permanently drying off diseased quarters, 168; running fits in dogs cured by protein, 169; allantoin-sulfanilamide ointment, 170; new chemotherapeutic agents, 201; effect of sodium benzoate on diseased and healthy horses, 241; review of use of sulphonamides, penicillin and other antibiotics, 318; hormonal therapy in veterinary practice, 323; action of electrolysed silver on certain venoms, protozoa, toxins, rickettsia, viruses and phages, 375; therapeutic applications of the β-chloroethyl amines and sulphides, 375; treatment of malignant tumours by bacterial toxins, 376; prevention of shock and death by pressure dressing, 376; mode of action of chemotherapeutic agents, 408; radioactive phosphorus as a therapeutic agent, 412; ointment bases, 455; wound dusting powder of azochloramid, urea and sulphanilamide, 455.
See also Books, therapeutics; Calcium; Hormones, sex hormones; Penicillin; Podophyllin; Sulphonamide Compounds, therapy; Vitamins, general, A, D, F,; Wounds; X-Rays.
Of Bacterial Diseases. Of mastitis in milk, 1; germicidal properties of ammonium salts, 30; action of penicillin and bacteriophage on staphylococci, 57; penicillin therapy in bacterial endocarditis, 57; of experimental TB, 121; of swine erysipelas, 121; bactiophage therapy, 121; chemotherapy in experimental tetanus, 121; of tetanus, 136; staphylococcal anatoxitherapy, 203; promin in leprosy, 280; mechanism and treatment of the spasms in tetanus, 321.
See also Broncho-Pneumonia; *Cl. botulinum* Infection; *Cl. welchii*; *C. jaricminosus* Infection; Marfanil; Penicillin; Sulphonamide Compounds.
Of parasitic infestations. Effect of mercuric chloride on turkeys and *Hexamita meleagridis*, 122; of internal and external parasites in foxes, 123; method for delousing turkeys, 124; action of sulphonamides on helminths, 169; chemotherapy of filariasis with neostibosan, 375; Teniacidal action of di-phenthane-70, 454.

THERAPEUTICS—Of parasitic infestations—[cont'd.].
See also Anthelmintics; Insecticides; Parasiticides; Phenothiazine; Strangles.
Of protozoan diseases. Antimony tartrate, 28; derivatives of phenothiazine as therapeutic agents, 28; of European bovine piroplasmosis, 28; of ovine piroplasmosis, 28; new chemotherapeutic agents for nagana, 122; phenanthridinium compound 1553 for treatment of T. congolense in cattle, 122; Bayer 205 (naganol) for trypanosemiasis, 168; blood transfusion as treatment for anaplasmosis, 169; of experimental *T. congolense* infections, 244; tartar emetic for trypanosomiasis, 245; trypanocidal and spirochetocidal arsenicals derived from s-triazine, 245; antitrypanosome effect of antimonials, 281; therapeutic agents for control of coccidiosis, 281; continuous intravenous chemotherapy of *Pl. lophurae* infection in ducks, 322; "Farma 939" in chemotherapy of trypanosomiasis, 410; action of acid-substituted phenyl arsenoxides as a function of pH, 410; trypanocidal activity of antimonials, 453.
See also *Eimeria* Infection, treatment; Paludrine; Penicillin; *Plasmodium* Infection, treatment; Quinine; Sulphadiazine; Sulphamethazine; *T. evansi* Infection.
Of Rickettsia Infections. See *Rickettsia conjunctivae* Infection.
Of Virus Diseases. A search for virus-inactivating substances among micro-organisms, 123; effect of thiourea on equine encephalomyelitis virus, 245.
See also Fowl Plague; Penicillin; Viruses, neurotropic.
THIOURACIL. See Thyroid Gland.
THIOUREA. See Therapeutics; of protozoan diseases.
THROMBOCYTIN, 22.
THYROID GLAND. Hepatic lesions and hyperthyroidism, 54; toxicity of thiouracil, 56; biochemistry of, 239; mast cells in, from g. pigs and man, 239; effect of goiterogenic diets on thyroid hyperplasia of the chick, 441; role of thyroid in response of ovary to gonadotrapins, 446.
See also Goitre, Iodine; Water.
THYROXIN. See Bones, fractures.
TIBATIN. In treatment of *R. conjunctivae* infection, 322.
TICKS.
General. Distribution, life-history and medical importance of *Dermancentor marginatus*, 226; studies of genus *Rhipicephalus*, 226; an Encyrtid parasite of dog ticks, 226; ticks of Tennessee, 227; ticks of Colombia, 227; tick paralysis in cattle due to *Dermacentor Andersoni*, 267; an arsenic-resistant tick, 307; seasonal history and hosts of *Dermacentor variabilis*, in Iowa, 307; morphology and life histories, 396; of domestic stock from Portuguese E. Africa, 435; *Dermacentor marginatus* infestation of sheep, 397; water balance in *Ixodes ricinus*, 435.
See Arthropod Parasites.
Control, 380; pyrethrum, 29; spray containing sodium fluoride and nicotine sulphate, 306; control of Nuche fly and cattle tick, 283.
See also Parasiticides, D.D.T.
Diseases caused by, transmitted by. Transient paralysis due to American dog tick, 103; infection of, with *Past. tularensis*, 134; transmitting *Past. tularensis*, 214, 292; transmitting protozoa, 346; transmitting Q-fever, 190; transmitting encephalitis, 300; duration of transmission of tick relapsing fever by *Ornithodorus papillipes*, 307; tick infestation an aetiological factor in diseases of unknown origin in cattle, 353; disease-transmitting species of *Rhipicephalus*, 397.
"TODORIT." See *Babesia* Infection, treatment.
TOXAEMIA. Of gas gangrene, 184.
TOXINS. See Bacteria General, metabolism; *Clostridium* Infection, general; Immunology.
TOXOPLASMA INFECTION. In man and g. pig, 8; in a monkey, 297; of pigeons, 336.
See also Penicillin.
TRANSPORT OF ANIMALS. Of stock freed from German occupation, 175.
TREMATODES. In a cat, 73; in man and animals, in India, 192; life cycle of kidney fluke *Tamerdania bragai*, of pigeons, 227.
See also Helminth Parasites, general.
TRICHINELLA INFECTION.
General, 34; in swine, in man, in U.S.A., 15, 104, 128, 436; medical and public health aspect, in U.S.A., 16; legal aspect, in U.S.A., 16; in man, in Gt. Britain, 16; effect of X-rays on, 169; estimation of histamine in blood and tissues of infected rats and g. pigs, 228; report on an outbreak, in Canada, 228; in man, in Canada, 228; at main abattoir, Cologne; epidemiology of, 267.
See also Books, parasitology; Technique, parasitological.
Diagnosis. Serodiagnosis, 153, 227, 228; microscopic examination of meat for, 417.
See also Technique, parasitological.
Immunity, 14; antigen analysis of *T. spiralis*, in rabbits, 228; antiserum for T. spiralis, 397; age immunity in dogs, 436.
TRICHOMONAS FOETUS, 251; immunity, 5; causing infertility in cattle, 75, 137; pure culture of, 88; serological varieties among *T. foetus* strains from cattle, 137; phagocytosis of, in bovine vaginal secretions, 138; numbers occuring in bovine vagina during initial infections, 218; pathogenicity, 260.
TRICHOMONAS INFECTION.
In Cattle. Passive and active immunity, 5; clinical data, 43; diagnosis and control, 43; in Poland, 137; causing infertility, 137.
See also *Trichomonas foetus*.
TRICHOSTRONGYLES, 48; of sheep and goats, 104.
TRINIDAD AND TOBAGO. See Reports.
TRIPHENYLMETHANE. See Anthelmintics.
TRYPAN BLUE. See *Babesia* Infection, treatment.
TRYPAN RED. See Viruses, neurotropic.
TRYPANOSOMA INFECTION.
General, 177, 287, 378, 419, 420, 461; in Uganda, 333; of animals and man, 390; tsetse flies and trypanosomes, 307, 390.
Treatment, 332; toxicity and trypanocidal activity of some organic antimonials, 122; preparation of dry antigen, 185; Bayer 205 (naganol), 168; trypanocidal properties of phenanthridine, 204; in Belgian Congo, 333.
See also Penicillin; Therapeutics, of protozoan diseases.
T. BRUCEI INFECTION, 61; new chemotherapeutic agents for, 122; immunization, 185.
T. CONGOLENSE, 333; in cattle, treatment, 43; phenanthridinium compound 1553 for, 122; parenchymatous lesion and its relation to cellular defences, 344; course and pathology of *T. congolense* disease of cattle, 344.
See also Therapeutics, of protozoan diseases.
T. CRUZI INFECTION. Diagnosis by immune reactions, 217.
T. EQUIPERDUM INFECTION [DOURINE], 122; antigen for complement-fixation test, 185; treatment, 453.
T. EVANSI INFECTION [SURRA]. Treatment, in camels, 27; serodiagnosis of, in horses, 66; in India and Burma, 85; antigen for complement fixation test, 185.
See also Technique, parasitological.
T. RHODESIENSE. Inapparent infection by, in fowls, 98; in zebu cattle, 217.
T. VENEZUELENSE. In horses, in Venezuela, 438.
T. VIVAX, 419; research on, 217; in cattle, 336.
TRYPSIN. See Bacteria General, metabolism.
TRYPTOPHANE. See *Staph aureus*.
TSETSE FLIES. See *Glossina*.
TSUTSUGAMUSHI DISEASE. See *Rickettsia* Infection.
TUBERCULIN. Precipitin test for tuberculin antibodies, 47; chemistry of, 72.
See also Immunology, allergy; *M. Tuberculosis*, tuberculin.
TULARAEMIA. See *Past. tularensis*.
TUMOURS. See Neoplasms.
TURKEY. See *Brucella* Infection, diagnosis.
TURKEYS. Infectious sinusitis of, 50; Grasshoppers, a potential danger to turkeys, 50; *S. pullorum* infection in, 91; infected with *Capillaria caudinflata*, 104; *E. rhusiopathiae* infection in, 256; infectious diseases of, 268; National Turkey Improvement Plan, U.S.A., 310; use of sulphathiazole for, 371; *S. enteritidis* infection in, with leg deformity, 388; Haematozoa of, 392.
See also Enteritis; Pneumonomycosis; Nutrition, general; Therapeutics, of parasitic infestations; Vitamins, B complex.
TURPENTINE. See Influenza, Equine; SK- Preparation.
TYPHUS. See *Rickettsia* Infection.
TYROTHRICIN. See *Cl. welchii; Plasmodium gallinaceum*.

U

UDDER. Anatomy, 240; fast milking and control of mastitis, 421.
See also *Corynebact. pyogenes*.
UFI. See Urea.
UGANDA. See Glossina; Reports.
ULTRAVIOLET RADIATION. Effect on eggs of nematodes, 105.
See also Air-Borne Infection; Apparatus; Influenza, Swine; Jaundice; Technique, bacteriological.
UNDULANT FEVER. See *Brucella* Infection, in man.
UNION OF SOCIALIST SOVIET REPUBLICS. See Bronchopneumonia; Conferences; Education; *Eimeria* Infection; Food Inspection, meat; Helminth Parasites, control; *Leptospira* Infection, in cattle; Nutrition, diseases; *Past. tularensis*; Reports; Research; Services, Veterinary; Zoological Gardens; Zootechny.
UNION OF SOUTH AFRICA. See Reports.

UNITED STATES OF AMERICA. See *Bacillus anthracis* Infection, general; Books, parasitology, Technique; *Brucella* Infection, general, in cattle, in man; Catarrh, Bovine Malignant; Cheese; *Eimeria* Infection, in fowls, in rabbits; Encephalitis; Encephalomyelitis, Equine, general; Food Poisoning; Helminth Parasites; Influenza, general; Jaundice; Livestock Populations; Mastitis, Bovine; Milk, diseases transmitted by; *Mycobact. tuberculosis* Infection, general, in cattle, control, immunization; Nutrition, diseases; Parasites General; Parasiticides, D.D.T.; *Pasteurella* Infection, in fowls, in rodents; *Past. tularensis;* Poisoning, plants; Poliomyelitis; Proteins; Rabies, in cattle; Reports; Research; *S. cholerae-suis; S. pullorum* Infection; Services, Veterinary; Stomatitis, Vesicular; Ticks, general; *Trichinella* Infection; Turkeys; Zootechny.

UREA. Albumin regenerated from, 13; UFI-a new compound of urea and iodine, 26; in wound treatment, 247; utilization by ruminants, 335; estimation in nephritis, 401.
See also Immunology, toxins.

UREASE. Production by *Proteus*, 39.

URETHANES. In treatment of human leucosis, 376; influence on experimental animal tumours, 413.

URINE, 52, 59; in lead poisoning, 56; concentration of penicillin in, 57; vitamin C in, 79; tests for Salmonella, 97; nitrogen and ammonia content, normal horses, 115; of rabbits, phenothiazine in, 125; ascorbic acid in, of cattle, 160; examination in nephritis, 401.
See also Hormones, sex hormones; Metabolism, general.

URUGUAYA. See *Fasciola*.

UTERUS. TB of, in bovines, 2; consolidation of rupture of, cattle, 19; double external os in cattle, 234; responses to ergot alkaloids, 319; scirrhous adeno carcinoma of, in a cow, 398; pharmacological studies on, 413.
See also *Corynebact pyogenes;* Nutrition, diseases.

V

VAGINA. Pleuropneumonia-like organisms in, 185; submucosal haemorrhage of, in mares, 400; prolapse of, treated with vitamin D, 404.
See also Genital System, diseases; *T. foetus*.

VARIOLA. See Smallpox.

VENEZUELA. See Anaemia, Equine Infections, general; Crystal Violet Vaccine; *T. Venezuelense*.

VENOMS. Animal venoms and their physiological action, 25; antigens of venom of *Echis carinaties* in Eritrea, [illegible].
See also Bee Stings; Immunology, antisera; Poisoning, general; Therapeutics, general.

VESICULAR STOMATITIS. See Stomatitis, Vesicular.

VETERINARIANS. Prevention of Brucella allergy in, 215; right of entry to F and M Disease infected farms, in Germany, 392.

VETERINARY. Derivation of the word "Veterinary," 33.

VETERINARY SERVICES. See Services, Veterinary.

VIBRIO INFECTION. *V. foetus* in sheep, 294.

"VINQUISH," 61.

VIRUS ABORTION IN MARES. Pathology of, 429.

VIRUSES.

General. Relationship between viruses of vaccinia and infectious ectromelia of mice, 9; immunological studies on the psittacosis-lymphogranuloma group of viral agents, 46; genetic aspects of virulence, 217; interference between bacterial viruses, 189; composition of tobacco mosaic virus protein, 190; a new virus disease of poultry, 224; virus infections of domestic and laboratory animals, 261; a virus disease of rabbits, 265; commercial antigen for diagnosis of elementary body types of viral infections, 393; action of radiation on, 428.
See also Agranulocytosis, Feline Infectious; Anaemia, Equine Infections; Bronchitis, Avian Infections; Catarrh, Bovine Malignant; Ectromelia; F and M Disease; Fowl Paralysis, Fowl Plague; Grey Lung Virus; Influenza; Influenza, Swine; Jaagsiekte; Jaundice; Knopvelsiekte; Mouse Pneumonia; Myxoma; Pauleucopenia; Pneumonia, Virus Caused; Pox; Psittacosis; Rheumatism; Rinderpest; *Rubella;* Scrapie; Smallpox; Stomatitis, Vesicular; Swine Fever; Therapeutics, general, of virus diseases; Vitamin C; Yellow Fever.

Cultivation, 141; burst size distribution in growth of bacterial viruses (bacteriophages), 189; effects of specific antisera on growth of bacterial viruses (bacteriophages), 189.
See also Mouse Pneumonia.

Immunity. Absence of haemagglutinins, 8; studies on virus immunity, 44; vaccinal infection in the mouse, 187; immunology of certain virus infections, 219; vaccination against virus diseases, 219.
See also Immunology, immunity, to viruses.

Inclusion bodies. See Panleucopenia.

Neurotropic, 464; neutralization tests with, 47; protective action of trypan red, in mice, 123; neurotropic viruses of horse sickness, 301; mouse neurotropic fixed virus, 349; neurotropic virus diseases, 349.
See also Aujesky's Disease; Distemper; Encephalitis, Human; Encephalomyelitis; Encephalomyelitis, Equine; "Encephalosis"; Pneumoencephalitis, Avian; Poliomyelitis; Rabies.

Transmission. Of virus diseases by water, 46; transmission of myxoma virus by *Aëdes aegyptic* and *A. scapularis*, 230.
See also Encephalitis, Human.

VITAMINS.

General, 21, 154; requirements of tapeworms, 48; in animal feeding, 77; biosynthesis of, in human gut, 78; requirements of normal mice, 110; oral changes in dogs due to vitamin therapy, 160; effect of deficiencies on oral structures, 196; in relation to deficiencies in mother's milk, 196; effect on wound healing, 246; in animal health, 271; Vitamin deficiencies in animal foodstuffs, 271; requirements of calves, 359.
See also Bacteria General, growth; Nutrition.

A., 35, 78, 462; in treatment of acetonemia, 30; influence of vitamin A deficiency on bacterial flora of rats, 51; carotene content of blood plasma of cattle in vitamin A deficiency, 112; in blood plasma of calves and cattle, 359; carotenoids and vitamin A in liver of cattle and relationship to blood levels, 112; avitaminosis "A" in poultry, 160; relation between carotene intake and excretion of ascorbic acid, in cattle, 160; for treatment of scours in calves, 160; in sheep's colostrum and milk, 234; requirements of calves, 313; vitamin A deficiency cause of fatal syncope in swine, 357; differential diagnosis of vitamin A deficiencies and related ailments in cattle, 359; utilization by foxes, 360; deficiency in sheep, 381; seasonal variation of, in butter-fat and serum, 402; in nutrition of sheep, in Australia, 402; content of ewe's milk and colostrum, 403; utilization by chicks, 403; deficiency associated with urinary calculi in foxes, 442; carotene absorption by chickens, 443.
See also Bones, fractures; nutrition, diseases.

B complex, 78; imbalance of B factors, in rats, 78; synthesis and destruction of nicotinic acid by caecal flora of man, 78; folic acid, 78; dosage and effects of choline chloride in man, 84; importance of folic acid in rations low in nicotinic acid, 112; Biotin, 113; effect of chlorobutanol on B complex in the rumen and blood plasma ascorbic acid levels, 114; antibacterial substances related to pantothenic acid, 119; antibacterial activity of substances related to *p*-aminobenzoic acid, 119; *in vitro* effects of *p*-aminobenzoic acid on sulphonamides, 119; action of pyridine β-sulphonamide and analogy with nicotinamide, 119; growth inhibition by analogues of pantothenic acid, 216; conversion of desthiabiotin into biotin by some microorganisms, 259; daily requirements of nicotinic acid, 361; anaemia in rats on a diet low in pantothenic acid, 361; role of inositol in growth and lactation, 361; comparative effects of pyridoxine and pantothenic acid deficiencies on nervous tissues of swine, 405; pharmacological effect of nicotinic acid and nicotinamide in various animals, 413; folic acid and perosis, 442; intestinal synthesis by the rat, 443; biotin deficiency relation to reproduction and lactation, 443; choline deficiency studies in dogs, 443; effect of corn grits on nicotinic acid requirements of the dog, 443; comparative requirements of chicks and turkey poults for pantothenic acid, 443.

B_1, 78; a factor controlling endospore formation, 180; B_1-destroying factor in herrings, 272; role of niacin and thiamine in metabolism of glucose by *Staph. aureus*, 343; deficiency in foals, 362; storage of thiamine and retention in pork muscle, 404.

B_2. Effect on *Pl. lophurae* infection, 6; effect on rat leprosy, 339; ocular signs of ariboflavinosis, 362.

B_6. Pyridoxine deficiency caused by additions of aneurin and chalk, 78; pyridoxine therapy of poikilocytosis, 314; pyridoxine deficiency in diet of ducks, 404; Anaemia in swine due to pyridoxine deficiency, 443; pyridoxine-deficiency anaemia, 444.

C (ascorbic acid), 41, 398; defective granular eggshell formation by *Schistosoma mansoni* in g. pigs on diet deficient in vit. C, 14; localization in *Toxocara canis*, 17; in urine of healthy animals, 79; and tallowy flavour in milk, 84; virucidal action, 113; carotene intake and ascorbic acid excretion of cattle, 160; in prevention of lactational mastitis, 161; detoxication of arsphenamine by, 159; effect on number of granulocytes in blood, 314; therapeutic use, 314; utilization by cattle, 362; and wound healing, 367; effect on the hypoprothrombinaemia induced by dicumarol in the g. pig, 368; effect of oxidized ascorbic acid on tuberculin reaction, 395.
See also Pituitary Gland; Stomach.

D_2, 53, 78; in animal diets, 111; synergistic effect of cod liver vitamin D on synthetic vitamin D_2, 112; treatment of rickets with, 125; storage by sheep following administration of calciferol, 197; in prevention of rickets

VITAMINS—D.—[cont'd.].
in sheep in New Zealand, **197**; prolapse of vagina in rickets treated with, **404**; action on teeth of rachitic rats, compared with calcium and phosphorus, **443**.
See also Bones, fractures; Eggs; Metabolism, general; Nutrition, general.
E. Pigmentation of sex glands in vitamin E deficient rats, **51**; in treatment of "stiff-lamb" disease, **169**; effect on reproduction of dogs, **235**; influence of choline, cystine and α-tocopherol on ceroid pigment in dietary cirrhosis of rats, **361**.
F. Effect of essential fatty acids on cutaneous lesions in dogs and horses, **125**.
K. Effect of, on prothrombin level, **315**.

W

WARBLE FLIES. See Oestridae.
WARTS. Treatment with podophyllin, **58**.
WATER. Water economy of cattle, sheep, horses, pigs and poultry, **52**; in prevention of bovine mastitis, **63**; water intoxication in relation to thyroid and adrenal function, **116**; diseases transmitted by, in U.S.A., **171**; chlorination, **171**; supply problems in rural districts, **379**; national water policy, **459**.
WEIL'S DISEASE. Caused by *Leptospira suis*, **297**.
WELTMANN REACTION. In malaria, **151**.
See also Blood, serum.
WEST INDIES. See Fodder.
WHARTON'S JELLY. See Technique, general.
WILD ANIMALS AND BIRDS. Susceptibility of fur animals and game birds to tularaemia, **256**; birds as carriers of infection, **310**; control of infectious diseases in, **392**.
See also Anatomy; Poisoning, metals, metalloids and salts; Rinderpest, control.
WOOL. Australian Wool Board, 1942 and 1943, **91**; production in Australia, **177**; effect of diseases on, **233**; "stringy wool" and copper deficiency, **359**; growth, character of, **382**.
See also Reports, Union of S. Africa.
WORMWOOD. See Mange, treatment.
WOUNDS. Treatment with cod liver oil and "sulfoliquid," **30**; adult tissue extracts in healing, **55**; use of adult animal tissue extract in healing, **84**; constituents in red blood cells of value in wound healing, **117**; humoral aspects of healing, **165**; biological aspects of healing, **165**; effect of vitamins on healing, **246**; sheeps' heart muscle preparation in treatment of indolent wounds, and burns, **247**; urea in wound treatment, **247**; sensitivity of bacteria in infected wounds to penicillin, **247**; treatment by phytoncides, **322**; wound healing and vitamin C, **367**; treatment of human beings bitten by animals, **455**; influence of thyroid and 2-4-α linitrophenol on wound healing, **455**; healing of skin wounds, **455**.

X

X-RAYS. Effect on trichinosis in rats, **169**; effect on development of endothelial stages of *P. gallinaceum*, **345**; in treatment of human leucosis, **376**.

Y

YEAST. Therapeutic effect on poikilocytosis, **314**.
YELLOW FEVER. Immunity, **8**; and Jaundice, U.S.A., **11**; isolation of yellow fever virus from wild marmosets, **224**; inoculation of kittens with virus, **224**.
See also Jaundice; Panleucopenia.

Z

ZANZIBAR. See Fodder; Reports.
ZEPHIRAN. For skin disinfection, **207**.
See also *Cl. welchii*.
ZEPHYROL. As hand disinfectant, **376**.
ZINC. See *Cl. welchii*; Metabolism; Poisoning, metals, metalloids and salts.
ZOOLOGICAL GARDENS. Aspergillus infection in caged birds, **97**; diseases of animals in Moscow zoological park, **154**; diseases of animals in, **399**.
See also Strongloides.
ZOOLOGY. Pre-medical zoology, **330**.
ZOOTECHNY. Husbandry and horse breeding in U.S.S.R., **60**; results of artifical breeding of dairy cattle in New Jersey, **115**; cattle breeding policy, in India, **236**; rational use of pedigree bulls, **236**; TB. and breeds of cattle, in Eritrea, **290**; the care, breeding habits, and vaginal smear cycle of the hamster, **331**; breeding of sheep, **332**; statistical selection of breeding ewes, **380**; "constitution" in cattle in relation to pests and disease, **391**.
See also Leucosis, avian.